CONTENTS

ASSISTANTSHIPS AND FELLOWSHIPS IN MATHEMATICS IN 1975–1976

I. FOR GRADUATE STUDY AT UNIVERSITIES ............. 367

II. STIPENDS FOR STUDY AND TRAVEL ................. 425

   Graduate Support ...................................... 425
   Postdoctoral Support .................................. 427
   Travel and Study Abroad ............................... 434
   Study in U.S. for Foreign Nationals ................. 436
   Sources of Fellowship Information ................. 437

TAX STATUS OF GRANTS ................................. 439

INDEX OF ABSTRACTS, Volume 21 ....................... A-653

INDEX, Volume 21 ........................................... A-683
FOREWORD

The sixteenth Special Issue of these Notices contains lists of assistantships and fellowships available in mathematics and related sciences for the academic year 1975–1976 for graduate study at universities and stipends available for travel and study. Indexes for abstracts and articles published in these Notices during 1974, and a short article on the tax status of grants are also included.

The list of assistantships and fellowships at universities includes 419 departments of mathematics, applied mathematics, statistics, computer science, and related mathematical disciplines; these represent 313 colleges and universities. Institutions in the United States are listed alphabetically by state, followed by Canadian institutions.

Abbreviations used in the section on graduate study

Under the DEGREES AWARDED column the following terms have been used:

- Bachelor's by inst. Number of bachelor's degrees awarded by the institution
- Bachelor's by dept. Number of degrees awarded by the department
- Master's by dept. Number of master's degrees awarded by the department
- A&NT Algebra and Number Theory
- G&T Geometry and Topology
- L Logic
- A&FA Analysis and Functional Analysis
- P&S Probability and Statistics
- CS Computer Science and Numerical Analysis
- AM Applied Mathematics

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# Assistantships and Fellowships in Mathematics in 1975—1976

## I. For Graduate Study at Universities

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## Degrees Awarded

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*Resident and non-resident fees for 12 or more units. In addition, non-residents pay $29/unit or fraction up to a max. of 14.4 units/qtr. or $433 for 14.5 or more ($1,299 max. for academic year).
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M.A. programs designed to provide the training and experience on which one can base a career in the mathematical sciences are offered in cooperation with the undergraduate Claremont Colleges. The programs are: scientific computing, statistics and operations research, applied mathematics, and two-year-college teaching. An important part of each one is actual experience, through a 'mathematics clinic' which provides work on substantial problems from industry (and some financial support for students) or through practice teaching at a nearby two-year college. The Ph.D. program allows a specialization in functional analysis, applied mathematics, topology, number theory, and other areas. Fellowships (about $5000) and, in both programs, tuition waivers (about $2600) are available. The program is small and the experienced faculty can provide close attention to the particular needs and progress of each student. Claremont has a desert climate, but is 10 miles from mountain ski slopes and 40 miles from the beach. Facilities include a very good library and computer system.

For information write to: Mathematics Department, Claremont Graduate School, Claremont, California 91711
<table>
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<tr>
<th>Type</th>
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<td>Bachelor's by inst. 3800</td>
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<td>Department of Mathematics</td>
<td>Peter W. Shaw, Chairman</td>
<td>Teaching Assistantship (20-25) 3547-3912 9 80 6 Teaching</td>
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<td>San Francisco State University, San Francisco 94132</td>
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<td>Stanford University, Stanford 94305</td>
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<td>Master's by dept. 18</td>
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<td>Department of Mathematics</td>
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<td>Department of Computer Science</td>
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<td>Department of Operations Research</td>
<td>Gerald J. Lieberman, Chairman</td>
<td>Research Assistantship (8) *** # 20 Teaching</td>
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<td>Department of Statistics</td>
<td>Ingram Olkin, Chairman</td>
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<td>University of California, Berkeley 94720</td>
<td>Applications due: *</td>
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<td>Bachelor's by dept. 163</td>
<td>Master's by dept. 92</td>
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<tr>
<td>Department of Mathematics</td>
<td>M. Rosenlicht, Chairman</td>
<td>Fellowship (55) 500-2500 9 118-730/qtr.**</td>
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<tr>
<td>Fellowship: 12/1/74; Assistantship: 2/1/75.</td>
<td>**Some fellowships pay part of fees, most pay total fees.</td>
<td>Teaching Assistantship (85) 4326-4401 9 230-730/qtr.*** 16</td>
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<td>Some nonresident assistantships may receive waivers for 1 or 2 qtrs. of nonresident part ($1500) of total fees.</td>
<td>***Some fellowships pay part of fees, most pay total fees.</td>
<td>Research Assistantship (12) 3492 9 230-730/qtr.</td>
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*Non-residents pay an additional $43 per unit.

*Financial support requests are considered at the same time applications for admission are reviewed. All Ph.D. program students are assured of financial assistance (either as research assistants or teaching assistants).

**Fellowship and Scholarship are not separated as to category.

***$2920 for first and second year students; $3240 after second year.

#Carries nine units of tuition grant.

**Some fellowships pay part of fees, most pay total fees.

***Some nonresident assistantships may receive waivers for 1 or 2 qtrs. of nonresident part ($1500) of total fees.

Total: 92

Total: 36
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<td>**Impossible to estimate at this time.</td>
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<td>***Teaching Assistantships in Mathematics and Philosophy—see data for those departments.</td>
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University of California, Davis 95616

DEPARTMENT OF MATHEMATICS
Kurt Kreith, Chairman
Teaching Assistantship (30) 4401 9 16

Applications due: 2/15/75
Bachelor's by inst. 1628
Bachelor's by dept. 48
Master's by dept. 6
Ph.D. (1972-1974 incl.) A&NT 1, G&T 4, A&FA 1, P&S 2, CS 1. Total: 9

University of California, Irvine 92664

DEPARTMENT OF MATHEMATICS
Donald A. Darling, Chairman
Fellowship (1) 3381-3981 9 681
Teaching Fellowship (2) 4401 9 681 10 Teaching
Teaching Assistantship (22) 4401 9 681 15 Teaching

Applications due: 3/1/75
Bachelor's by inst. 1422
Bachelor's by dept. 63
Master's by dept. 6
Ph.D. (1972-1974 incl.) A&NT 1, A&FA 2, CS 1. Total: 4

University of California, Los Angeles 90024

DEPARTMENT OF MATHEMATICS
Philip C. Curtis, Jr., Chairman
Fellowship (6) 2206-2400 9 500*
Teaching Fellowship (6) 4401-5220 9
Teaching Assistantship (46) 4401-5220 9

Applications due: 1/2/75
Bachelor's by inst. 4226
Bachelor's by dept. 138
Master's by dept. 39
Ph.D. (1972-1974 incl.) A&NT 10, G&T 7, L 6, A&FA 12, P&S 5, CS 1, AM 9, Other 2. Total: 52

University of California, Riverside 92502

DEPARTMENT OF MATHEMATICS
John de Pillis, Chairman
Fellowship (5) 2500 12 *

Applications due: 2/1/75
Bachelor's by inst. 1145
Bachelor's by dept. 48
Master's by dept. 7

University of California, San Diego, La Jolla 92037

DEPARTMENT OF MATHEMATICS
Donald W. Anderson, Chairman
Teaching Assistantship (55) 4401 9 1/2 time Teaching
Research Assistantship (4) 4656 11 1/2 time Advanced students only
Scholarship (6) partial fees and/or tuition

Applications due: 2/1/75
Bachelor's by inst. 954
Bachelor's by dept. 35
Master's by dept. 17
Ph.D. (1972-1974 incl.) A&NT 1, G&T 3, L 1, A&FA 1, P&S 2, CS 1, AM 3, Other 4. Total:16

DEGREES AWARDED

Bachelor's by inst. 5696
Bachelor's by dept. 198
Master's by dept. 6
Ph.D. (1972-1974 incl.) A&NT 1, G&T 4, A&FA 1, P&S 2, CS 1. Total: 9

Bachelor's by inst. 1628
Bachelor's by dept. 48
Master's by dept. 6
Ph.D. (1972-1974 incl.) A&NT 1, A&FA 2, CS 1. Total: 4

Bachelor's by inst. 4226
Bachelor's by dept. 138
Master's by dept. 39
Ph.D. (1972-1974 incl.) A&NT 10, G&T 7, L 6, A&FA 12, P&S 5, CS 1, AM 9, Other 2. Total: 52

Bachelor's by inst. 1145
Bachelor's by dept. 48
Master's by dept. 7

Bachelor's by inst. 954
Bachelor's by dept. 35
Master's by dept. 17
Ph.D. (1972-1974 incl.) A&NT 1, G&T 3, L 1, A&FA 1, P&S 2, CS 1, AM 3, Other 4. Total:16

371
University of California, Santa Cruz 95060

DEPARTMENT OF MATHEMATICS
Gerhard Ringel, Chairman

Fellowship (2)
Teaching Assistantship (15)

Applications due: 2/75

Bachelor's by inst. 938
Bachelor's by dept. 11
Master's by dept. 3
Ph. D. (1972-1974 incl.)
A & FA 1. Total: 1

*Undergraduate: $229 per quarter; Graduate: $249 per quarter.

University of Southern California, Los Angeles 90007

DEPARTMENT OF MATHEMATICS
H.A. Antosiewicz, Chairman

Teaching Assistantship (30)

Applications due: 3/1/75

Bachelor's by inst. 2075
Bachelor's by dept. 32
Master's by dept. 14
Ph. D. (1972-1974 incl.)
A & NT 5, G & T 2, A & FA 7,
P & S 3, AM 5. Total: 22.

Colorado State University, Fort Collins 80521

DEPARTMENT OF MATHEMATICS
E.R. Deal, Head

Teaching Assistantship (32)
Research Assistantship (3)
Scholarship (2)

Applications due: 3/15/75

Plus preparation.

DEPARTMENT OF STATISTICS
Franklin A. Graybill, Chairman

Teaching Assistantship (8)
Research Assistantship (15)

Applications due: 3/15/75

Bachelor's by inst. 2612
Bachelor's by dept. 29
Master's by dept. 36
Ph. D. (1972-1974 incl.)
A & NT 4, G & T 1, A & FA 4,
Other 1. Total: 10

University of Colorado, Boulder 80302

DEPARTMENT OF MATHEMATICS
Henry G. Hermes, Chairman

Fellowship (3)
Teaching Assistantship (52)

Applications due: 2/1/75

Bachelor's by inst. 3635
Bachelor's by dept. 122
Master's by dept. 23
Ph. D. (1972-1974 incl.)
A & NT 7, G & T 6, L 2,
A & FA 9, P & S 3, AM 1,
Other 1. Total: 29

*+$22 per credit over nine hours or full tuition.

DEPARTMENT OF COMPUTER SCIENCE
Lloyd D. Fosdick, Chairman

Fellowship (1)
Teaching Assistantship (11)
Research Assistantship (14)

Applications due: 2/15/75

Bachelor's by inst. 3635
Master's by dept. 23
Ph. D. (1972-1974 incl.)
CS 1. Total: 1

University of Northern Colorado, Greeley 80639

DEPARTMENT OF MATHEMATICS AND MATHEMATICAL EDUCATION
Donald D. Elliott, Chairman

Teaching Assistantship (7)

Applications due: 2/25/75

Bachelor's by inst. 1200
Bachelor's by dept. 40
Master's by dept. 15
Ph. D. (1972-1974 incl.)
A & NT 3, G & T 2, A & FA 4,
P & S 2, AM 3, Other 6.
Total: 20

CONNECTICUT

University of Connecticut, Storrs 06268

DEPARTMENT OF MATHEMATICS
John V. Ryff, Head

Fellowship (7)
Teaching Assistantship (14 1/2)

Applications due: 3/1/75

Bachelor's by inst. 3230
Bachelor's by dept. 42
Master's dept. 6
Ph. D. (1972-1974 incl.)
A & NT 1, G & T 1, A & FA 1.
Total: 3

* In-state: $175; out-of-state: $425. Students may apply directly to the Graduate School for fellowship and grant-in-aid assistance, particularly those from disadvantaged backgrounds.
Wesleyan University, Middletown 06457

DEPARTMENT OF MATHEMATICS
William L. Reddy, Chairman

Teaching Assistantship (13) 2600-2900* 9**
Scholarship (5) 9

*Plus dependency allowance.
**Some summer support available.

Yale University, New Haven 06520

DEPARTMENT OF MATHEMATICS
G.B. Seligman, Chairman

Full or partial support available for most students.

DEPARTMENT OF COMPUTER SCIENCE
Martin H. Schultz, Chairman

Fellowship (17) 450-5400 9
Teaching Fellowship *
Research Assistantship (13) 450-2600 9

*Will probably have about 30 semester jobs at $325/semester.

DEPARTMENT OF STATISTICS
J.A. Hartigan, Chairman

Fellowship (12) 1400-3000 9
Research Assistantship (2) 3500-3800 9

Applications due: 3/1/75
Bachelor's by inst. 2116
Bachelor's by dept. 38
Master's by dept. 11

DELTA

University of Delaware, Newark 19711

DEPARTMENT OF MATHEMATICS
Wilard E. Baxter, Chairman

Fellowship (3) 2900 9
Teaching Assistantship (26) 2850-3450 9

Applications due: 3/1/75
Bachelor's by inst. 2116
Bachelor's by dept. 38
Master's by dept. 11

*Non-New England States: $1234.
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**DISTRICT OF COLUMBIA**

**American University, Washington 20016**

DEPARTMENT OF MATHEMATICS, STATISTICS AND COMPUTER SCIENCE
Basil P. Korin, Chairman

Research Assistantship (8) 5985-7569 12
Research Fellowship (6) 5985-7569 12

American University, Washington 20016

Bachelor's by inst. 1600
Bachelor's by dept. 15
Master's by dept. 10
Ph. D. (1972-1974 incl.)
G&T 1, P&S 4, CS 1.
Total: 6

**Catholic University of America, Washington 20064**

DEPARTMENT OF MATHEMATICS
John N. Welch, Chairman

Teaching Fellowship (8) 2400 9

American University, Washington 20064

Applications due: 3/1/75
Bachelor's by inst. 603
Bachelor's by dept. 11
Master's by dept. 1
Ph. D. (1972-1974 incl.)
A&FA 6, P&S 3. Total: 9

**George Washington University, Washington 20007**

DEPARTMENT OF MATHEMATICS
John Lagnese, Chairman

Teaching Fellowship (5) 2800 9

American University, Washington 20007

Applications due: 2/15/75
Bachelor's by inst. 962
Bachelor's by dept. 5
Master's by dept. 3
Ph. D. (1972-1974 incl.)

**George Washington University, Washington 20052**

DEPARTMENT OF MATHEMATICS
T.P.G. Liverman, Chairman

Teaching Fellowship (7) 2900 9

George Washington University, Washington 20052

Applications due: 2/15/75
Bachelor's by inst. 1620
Bachelor's by dept. 20
Master's by dept. 20
Ph. D. (1972-1974 incl.)
A&NT 2, G&T 4, A&FA 4,
AM 2, Total: 19

**Florida Atlantic University, Boca Raton 33432**

DEPARTMENT OF MATHEMATICS
Roy B. Levow, Chairman

Teaching Fellowship (3) 2000-3000 9/12 16.50/hr.

Florida Atlantic University, Boca Raton 33432

Applications due: 4/1/75*
Bachelor's by inst. 1093
Bachelor's by dept. 16
Master's by dept. 4

*Late applications will be accepted.

*Non-resident tuition add $24/qtr. hr. unless waived.

**Florida State University, Tallahassee 32306**

DEPARTMENT OF MATHEMATICS
Charles W. McArthur, Chairman

Fellowship (2) 3000-3000 12
Teaching Assistantship (22) 3400-3600 9
Research Assistantship (6) 3400-3600 9 or 12

Florida State University, Tallahassee 32306

Applications due: 2/1/75
Bachelor's by inst. 4122
Bachelor's by dept. 36
Master's by dept. 11
Ph. D. (1972-1974 incl.)
A&NT 2, G&T 5, A&FA 4,
AM 2, Total:19

*Plus $24 per hour non-resident tuition unless waived.

DEPARTMENT OF STATISTICS
Ralph A. Bradley, Head

Fellowship (8) 3000* 12
Teaching Assistantship (10) 3600 12
Research Assistantship (14) 3600 12
Consulting (3) 3600-4200 12

Florida State University, Tallahassee 32306

Applications due: 2/1/75
Bachelor's by inst. 1620
Bachelor's by dept. 20
Master's by dept. 20
Ph. D. (1972-1974 incl.)
P&S 12. Total: 12

*Plus allowance for dependents.

**University of Florida, Gainesville 32611**

DEPARTMENT OF MATHEMATICS
A. R. Bednarek, Chairman

Fellowship (2) 3000 9
Teaching Assistantship (42) 3000 9

University of Florida, Gainesville 32611

Applications due: 2/15/75
Bachelor's by inst. 4442
Bachelor's by dept. 33
Master's by dept. 9
Ph. D. (1972-1974 incl.)
A&NT 2, G&T 4, A&FA 4,
AM 1, Total: 11

374
## Graduate Teaching Assistantships

**FOR FALL 1975**

Stipends $2700 — 3300 plus tuition remission. Ph.D. program in pure mathematics. Masters programs in pure and applied mathematics, numerical analysis, computer science, and statistics.

### Department of Mathematics

**UNIVERSITY OF MIAMI**

P. O. Box 9085

Coral Gables, Florida 33124

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### GRADUATE DEGREES AWARDED

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### STIPENDS

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<td>Tuition Grant</td>
<td>$2700 - 3300</td>
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<td>Ph.D. program in pure mathematics</td>
<td>Masters programs in pure and applied mathematics, numerical analysis, computer science, and statistics.</td>
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# DEPARTMENT OF INFORMATION AND COMPUTER SCIENCE

Vladimir Slamecka, Director

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<td>2800-3600</td>
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<td>Research Assistantship (8)</td>
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<td>183/qtr. 13</td>
<td>Research</td>
<td>Master's by dept. 84</td>
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<td>M.S. Burroughs (1)</td>
<td>3000</td>
<td>183-478/qtr.</td>
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<td>IBM (Ph.D.) (3)</td>
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*Georgia Institute of Technology Presidential Fellowship awarded to first year Ph.D. students only.

**HEW Biomedical Information and Computer Science Traineeship. Restricted to U.S. citizens and normally reserved for Ph.D. students.

Georgia Southern College, Statesboro 30458

# DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

D. Earl Lavender, Head

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Georgia State University, Atlanta 30303

# DEPARTMENT OF MATHEMATICS

Jan List Boal, Chairman

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<td>9.75/qtr.hr. * 10-15</td>
<td>Paper grading, tutorials</td>
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*Plus out-of-state tuition $20 per quarter hour.

University of Georgia, Athens 30602

# DEPARTMENT OF MATHEMATICS

James C. Cantrell, Acting Head

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<td>Paper grading, note taking</td>
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<td>942/5-hr. course</td>
<td>181/qtr. **</td>
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<td>Bachelor's by dept. 25</td>
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*Some nonteaching duties.

**3-5 courses per year.

DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE

Carl F. Kossack, Head

<table>
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<th>Type</th>
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<th>Tuition</th>
<th>Service Required</th>
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<td>15/qtr.hr. 13</td>
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<td>P&amp;G 9, Total: 9</td>
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</tbody>
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THE DEPARTMENT OF MATHEMATICS
THE UNIVERSITY OF GEORGIA
Athens, Georgia

invites applications and nominations for Department Head. Candidates should be persons of established reputation, capable of providing leadership and promoting growth within both the University and the mathematical community.

The University of Georgia is an equal opportunity employer.

Inquiries accompanied by resumes should be sent to:

Chairman, Search Committee
Department of Mathematics
THE UNIVERSITY OF GEORGIA
Athens, Georgia 30602

376
West Georgia College, Carrollton 30117
DEPARTMENT OF MATHEMATICS
C. R. Pittman, Chairman
Teaching Assistantship (3) 2100 9 9.75/qtr.hr. 15 Lab. assistance
Applications due: 4/1/75 Bachelor's by inst. 879 Bachelor's by dept. 12 Master's by dept. 1

University of Hawaii, Honolulu 96822
DEPARTMENT OF MATHEMATICS
Adolf Mader, Chairman
Teaching Assistantship (6) 3708-4308 9 20
Scholarship (1) 4200 12 **
Applications due: * Bachelor's by inst. 2768 Bachelor's by dept. 39 Master's by dept. 3
**Ph.D. (1972-1974 incl.) A&FA 5. Total: 2

Idaho State University, Pocatello 83201
DEPARTMENT OF MATHEMATICS
John Hilzman, Chairman
Fellowship (5) 2800 9
Teaching Assistantship (4) 2650 9
Applications due: 3/14/75 Bachelor's by inst. 680 Bachelor's by dept. 21 Master's by dept. 6
Ph.D. (1972-1974 incl.) Other 11. Total: 11

University of Idaho, Moscow 83843
DEPARTMENT OF MATHEMATICS
Larry E. Bobisud, Acting Chairman
Teaching Assistantship (11) 2700-3500 9 6 Teaching
Applications due: 2/15/75 Bachelor's by inst. 819 Bachelor's by dept. 28 Master's by dept. 5

DePaul University, Chicago 60614
DEPARTMENT OF MATHEMATICS
Y. F. Wong, Chairman
Graduate Assistantship (4) 2200 9 6 Teaching
Applications due: 5/1/75 Bachelor's by inst. 1100 Bachelor's by dept. 28 Master's by dept. 5

Eastern Illinois University, Charleston 61920
DEPARTMENT OF MATHEMATICS
Alphonso J. DiPietro, Chairman
Teaching Assistantship (10) 2900 9 3-5 Teaching
Graduate Assistantship (5) 1890 9 10 Tutoring, computer programming, library
Applications due: 6/1/75 Bachelor's by inst. 499 Bachelor's by dept. 26 Master's by dept. 19

Illinois Institute of Technology, Chicago 60616
DEPARTMENT OF MATHEMATICS
Haim Reingold, Chairman
Fellowship (1) 2400-3600 12 6 Teaching
Teaching Assistantship (3) 2400-3000 9
Applications due: 3/1/75 Bachelor's by inst. 449 Bachelor's by dept. 26 Master's by dept. 19

Illinois State University, Normal 61761
DEPARTMENT OF MATHEMATICS
Robert K. Ritt, Chairman
Teaching Assistantship (12) 250 9 12-15 Teaching
Applications due: 6/1/75 Bachelor's by inst. 3765 Bachelor's by dept. 79 Master's by dept. 18
*$18 per hour plus $29 for fees.

Loyola University, Chicago 60626
DEPARTMENT OF MATHEMATICS
Rev. J. Richard Vandevelde, Chairman
Teaching Assistantship (3) 2200 9 6-10 Teaching
Applications due: 5/1/75 Bachelor's by inst. 1481 Bachelor's by dept. 40 Master's by dept. 4
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<th>SERVICE REQUIRED</th>
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<td>John L. Selfridge, Chairman</td>
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<td>Teaching Assistantship (30/8)*</td>
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<td>600</td>
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<td>12 Teaching</td>
<td>Master's by dept. 14</td>
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</tbody>
</table>

*Numbers to left of slash—mathematics; to right of slash—computer science.

Northwestern University, Evanston 60201

| DEPARTMENT OF MATHEMATICS | | | | |
| Mark Mahowald, Chairman | | | | |
| Teaching Fellowship (7) | 2800 | 9 | 12 | Bachelor's by inst. 1436 |
| Teaching Assistantship (30) | 2800 | 9 | 12 | Bachelor's by dept. 28 |

Ph.D. (1972-1974 incl.)
A&NT 6, G&T 9, A&FA 11, P&S 1, AM 3. Total: 30

Applications due: 2/3/75

Bachelor's by dept. 9
Master's by dept. 26

Southern Illinois University–Carbondale 62901

| DEPARTMENT OF MATHEMATICS | | | | |
| Neil E. Foland, Chairman | | | | |
| Fellowship (3) | 3360-3600 | 12 | 50-75** | Bachelor's by inst. 4100 |
| Teaching Assistantship (25) | 2745-2970 | 9 | 50-73** | Bachelor's by dept. 53 |
| Graduate Assistantship (4) | 3355-3630 | 11 | 50-73** | Master's by dept. 9 |

Ph.D. (1972-1974 incl.)
A&NT 1, A&FA 2. Total: 3

Applications due: 2/1/75*

Bachelor's by inst. 1662
Bachelor's by dept. 40
Master's by dept. 7

Southern Illinois University-Edwardsville 62025

| DEPARTMENT OF MATHEMATICS STUDIES | | | | |
| Norval D. Wallace, Chairman | | | | |
| Teaching Assistantship (21) | 3060-3330 | 9 | 20 Teaching Assistant | Bachelor's by inst. 406 |
| Research Assistantship (1) | 2250 | 9 | 20 Senior Faculty Member | Bachelor's by dept. 21 |

Ph.D. (1972-1974 incl.)
A&NT 27, G&T 13, A&FA 12, P&S 2, CS 1, AM 2. Total: 57

Applications due: 6/1/75

Bachelor's by inst. 3222
Bachelor's by dept. 138
Master's by dept. 43

University of Chicago, Chicago 60637

| DEPARTMENT OF MATHEMATICS | | | | |
| Felix E. Browder, Chairman | | | | |
| Fellowship (30) | 3000 | 9 | 5 Teaching | Bachelor's by inst. 406 |
| Teaching Assistantship (20) | 3600 | 9 | 5 Research | Bachelor's by dept. 21 |
| Research Assistantship (5) | 3600 | 9 | 5 | Master's by dept. 21 |

Ph.D. (1972-1974 incl.)
A&NT 7, L 2, A&FA 2, P&S 1. Total: 12

Applications due: 2/1/75

Bachelor's by inst. 3222
Bachelor's by dept. 138
Master's by dept. 43
University of Illinois at Urbana-Champaign, Urbana 61801

DEPARTMENT OF MATHEMATICS
Paul T. Bateman, Head

Teaching Fellowship (11) 4402 12
Teaching Assistantship (150) 3805 9
Research Assistantship (1) 3005 9

Applications due: 2/15/75
Bachelor's by inst. 5819
Bachelor's by dept. 135
Master's by dept. 70
Ph.D. (1972-1974 incl.) A&NT 14, G&T 14, L 9,
A&FA 14, P&S 4, CS 4,
AM 14. Total: 73

DEPARTMENT OF COMPUTER SCIENCE
J. N. Snyder, Head

Fellowship (6) 2500 11
Teaching Assistantship (37) 3370-3500 9
Research Assistantship (56) 3370-5000 12
Tuition & Fee Waiver (4) 896-2114 12

Applications due: 2/15/75
Bachelor's by inst. 5819
Bachelor's by dept. 64
Master's by dept. 32
Ph.D. (1972-1974 incl.)
CS 35. Total: 35

Western Illinois University, Macomb 61455

DEPARTMENT OF MATHEMATICS
A. Jerry Shryock, Chairman

Teaching Assistantship (12) 2610 9

Applications due: 4/1/75
Bachelor's by inst. 2920
Bachelor's by dept. 78
Master's by dept. 15

INDIANA

Ball State University, Muncie 47306

DEPARTMENT OF MATHEMATICAL SCIENCES
Duane E. Deal, Chairman

Teaching Assistantship (16) 2800 9

Applications due: 2/15/75
Bachelor's by inst. 778
Bachelor's by dept. 78
Master's by dept. 30

Indiana State University, Terre Haute 47809

DEPARTMENT OF MATHEMATICS
Vesper Moore, Chairman

Teaching Assistantship (12) 1800-2200 9
Summer (6) 500 2.5

Applications due: 4/1/75
Bachelor's by inst. 2200
Bachelor's by dept. 50
Master's by dept. 25

Indiana University, Bloomington 47401

DEPARTMENT OF MATHEMATICS
Maynard Thompson, Chairman

Fellowship (3) 1200 5 *
Teaching Fellowship (2) 4000 **
Teaching Assistantship (120) 3000-3200 9 ***

Research Assistantship (2) 1600-3200 9 **
Undergraduate Interns (11) 600 5 #
1200 9

Summer Seminar Fellowship (12) 500 8 weeks ##

Bachelor's by inst. 7000
Bachelor's by dept. 64
Master's by dept. 53
Ph.D. (1972-1974 incl.)
A&NT 5, G&T 6, A&FA 16,
P&S 2, AM 6. Total: 35

DEPARTMENT OF COMPUTER SCIENCE
Franklin Prosser, Chairman

Fellowship (1) *
Teaching Assistantship (21) *

Applications due: 2/15/75
Bachelor's by inst. 7000
Bachelor's by dept. 11
Master's by dept. 20

Purdue University, West Lafayette 47907

DEPARTMENT OF MATHEMATICS
Meyer Jerison, Head

Fellowship (3) 3400-4000 12 60/sem.
Teaching Assistantship (110) 3200-3800 9 60/sem.
Research Assistantship (6) 2000-2790 6 60/sem.
Black Fellowship (3) 3600-4200 12 60/sem

Bachelor's by inst. 4185
Bachelor's by dept. 150
Master's by dept. 55
Ph.D. (1972-1974 incl.)
A&NT 6, G&T 6, L 2,
A&FA 15, AM 12. Total: 43
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<td>Master's by dept. 8</td>
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* 20 or 6 or free on fellowship year.
Applications due: 3/1/75
Bachelor's by inst. 2893
Bachelor's by dept. 59
Master's by dept. 9

Applications due: 3/31/75
Bachelor's by inst. 1135
Bachelor's by dept. 32
Master's by dept. 12

Applications due: 3/1/75
Bachelor's by inst. 896
Bachelor's by dept. 28
Master's by dept. 8

Applications due: 3/1/75
Bachelor's by inst. 1064
Bachelor's by dept. 22
Master's by dept. 10

Applications due: 3/75
Bachelor's by inst. 2635
Bachelor's by dept. 34
Master's by dept. 15

Applications due: 2/15/75
Bachelor's by inst. 2380
Bachelor's by dept. 29
Master's by dept. 11

Applications due: 4/15/75
Bachelor's by inst. 2380
Bachelor's by dept. 1
Master's by dept. 8

Applications due: 4/1/75
Bachelor's by inst. 1319
Bachelor's by dept. 11
Master's by dept. 9

Applications due:
Bachelor's by inst. 1027
Bachelor's by dept. 23
Master's by dept. 2

Applications due:
Bachelor's by inst. 286, 50; non-resident: $336, 50.

Applications due: 17/sem.hr. 6-12
Bachelor's by inst. 1319
Bachelor's by dept. 11
Master's by dept. 9

Applications due: *
Bachelor's by inst. 2380
Bachelor's by dept. 1
Master's by dept. 8

Applications due:
Bachelor's by inst. 1027
Bachelor's by dept. 23
Master's by dept. 2

Applications due:
Bachelor's by inst. 286, 50; non-resident: $336, 50.

Applications due:
Bachelor's by inst. 1319
Bachelor's by dept. 11
Master's by dept. 9

Applications due:
Bachelor's by inst. 1027
Bachelor's by dept. 23
Master's by dept. 2

Applications due:
Bachelor's by inst. 286, 50; non-resident: $336, 50.
### Murray State University, Murray 42071

**DEPARTMENT OF MATHEMATICS**

Harold G. Robertson, Chairman

- **Teaching Assistantship (5)**: 1800-2700, 9 hours, 241/sem.
- **Research Assistantship (3)**: 3000

Applications due: 3/15/75

Bachelor's by inst. 1113
- Bachelor's by dept. 35
- Master's by dept. 3

### University of Kentucky, Lexington 40506

**DEPARTMENT OF MATHEMATICS**

Raymond H. Cox, Chairman

- **Fellowship (4)**: 2700, 9 hours, 265/sem.
- **Teaching Assistantship (50)**: 3300-3600, 9 hours, 265/sem.
- **Research Assistantship (3)**: 3000

Applications due: 2/1/75

Bachelor's by inst. 2843
- Bachelor's by dept. 32
- Master's by dept. 13
- Ph.D. (1972-1974 incl.)
  - A&NT 8
  - G&T 5
  - A&FA 11
  - Total: 24

### DEPARTMENT OF COMPUTER SCIENCE

Thaddeus B. Curtz, Chairman

- **Fellowship (3)**: 3000, 9 hours, 10-20
- **Teaching Assistantship (8)**: 1800-3600, 9 hours, 20

Applications due: *

Bachelor's by inst. 2843
- Bachelor's by dept. 13
- Master's by dept. 4

### University of Louisville, Louisville 40208

**DEPARTMENT OF MATHEMATICS**

Roger H. Geeslin, Chairman

- **Teaching Assistantship (5)**: 2900-3100, 9 hours, 6 Teaching

Applications due: 3/1/75

Bachelor's by inst. 1176
- Bachelor's by dept. 27
- Master's by dept. 7

### Western Kentucky University, Bowling Green 42101

**DEPARTMENT OF MATHEMATICS**

Robert C. Bueker, Chairman

- **Teaching Assistantship (7)**: 2400-2900, 9 hours, 235/sem.

Applications due: 3/1/75

Bachelor's by inst. 1235
- Bachelor's by dept. 28

### LOUISIANA

### Louisiana Tech University, Ruston 71270

**DEPARTMENT OF MATHEMATICS**

W.B. Temple, Head

- **Fellowship (7)**: 3000, 9 hours, 6
- **Teaching Assistantship (4)**: 4500, 9 hours, 6

Applications due: 2/15/75

Bachelor's by inst. 1500
- Bachelor's by dept. 20
- Master's by dept. 6
- Ph.D. (1972-1974 incl.)
  - A&NT 1
  - A&FA 2
  - P&S 1
  - Total: 4

*Out-of-state fees waived.

### Northeast Louisiana University, Monroe 71201

**DEPARTMENT OF MATHEMATICS**

Richard D. Finley, Head

- **Teaching Assistantship (15)**: 3000, 9 hours, 6 Teaching

Applications due: 4/1/75

Bachelor's by inst. 1190
- Bachelor's by dept. 16
- Master's by dept. 8

### Northwestern State University, Natchitoches 71457

**DEPARTMENT OF MATHEMATICS**

Russell Whittington, Jr., Chairman

- **Teaching Assistantship (4)**: 400-2400, 9 hours, 6-12 Varies

Applications due: Open

Bachelor's by inst. 689
- Bachelor's by dept. 20

### Southeastern Louisiana University, Hammond 70401

**DEPARTMENT OF MATHEMATICS**

Robert C. Brown, Head

- **Teaching Assistantship (2)**: 2400, 9 hours, 65 Teaching

Applications due: 5/1/75

Bachelor's by inst. 807
- Bachelor's by dept. 15
- Master's by dept. 1

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### University of Maryland, Baltimore County, Baltimore 21228

**DEPARTMENT OF MATHEMATICS**

Fred Gross, Chairman

- **Teaching Assistantship** (15)  
  - 3000-4000 9
  - Applications due: 4/1/75
  - 15 Teaching

### University of Maryland, College Park 20742

**DEPARTMENT OF MATHEMATICS**

J. K. Goldhaber, Chairman

- **Fellowship** (2)  
  - 4000 9
  - Applications due: 2/1/75
  - 6 Grading
  - 6 Teaching

### University of Maryland, College Park 21228

- **Teaching Assistantship** (107)  
  - 3000-4000 9
  - Applications due: 4/1/75
  - 15 Teaching

*Resident: $47/credit; non-resident: $72/credit.*

### Massachusetts

**Boston University, Boston 02215**

**DEPARTMENT OF MATHEMATICS**

Robin Esch, Chairman

- **Teaching Fellowship** (16)  
  - 2800 9
  - Applications due: 2/1/75
  - 6 Teaching
  - 12 Library, etc.

**Brandeis University, Waltham 02154**

**DEPARTMENT OF MATHEMATICS**

Jerome Levine, Chairman

- **Fellowship** (13)  
  - 600-2600 9
  - Applications due: 2/1/75
  - 6 Grading, research
  - Ph.D. (1972-1974 incl.)

**Clark University, Worcester 01610**

**DEPARTMENT OF MATHEMATICS**

Robert W. Kilmoyer, Jr., Chairman

- **Teaching Assistantship** (7)  
  - 2800-3000 9
  - Applications due: 2/20/75
  - 4 Teaching
  - Full time
  - Ph.D. (1972-1974 incl.)

**Harvard University, Cambridge 02138**

**DEPARTMENT OF MATHEMATICS**

Raoul Bott, Chairman

- **Fellowship** (5)  
  - 3600 12
  - Applications due: 1/10/75
  - 12 Varies
  - Ph.D. (1972-1974 incl.)

### University of Maryland Baltimore County

**GRADUATE STUDY IN APPLIED MATHEMATICS LEADING TO M.S. AND PH.D. DEGREES**


**TEACHING ASSISTANTSHIPS:** $3000—$4000 with Remission of Fees

**APPLY TO:** Chairman, Graduate Committee

**Division of Mathematics and Physics**

**UNIVERSITY OF MARYLAND BALTIMORE COUNTY**

Baltimore, Maryland 21228

---

384
| DEPARTMENT OF APPLIED MATHEMATICS | Applications due: 1/10/75 | Bachelor's by inst. | 1422
| Teaching Fellowship (10)* | 900-1100 | Bachelor's by dept. | 17
| Research Assistantship (15)* | 2175-4725 | Master's by dept. | 6

**Estimates.**

| DEPARTMENT OF ENGINEERING AND APPLIED PHYSICS | Applications due: 1/10/75 | Bachelor's by inst. | 1422
| Harvey Brooks, Dean | Teaching Fellowship (50) | 900-1100 | Bachelor's by dept. | 19
| Teaching Assistantship (5) | Varies-1200 | Master's by dept. | 45
| Research Assistantship (100) | 2175-4725 | Varies-2600 | 9
| Scholarship (30) | 9

| DEPARTMENT OF STATISTICS | Applications due: * | Bachelor's by inst. | 1422
| Arthur P. Dempster, Chairman | Fellowship** | Teaching Fellowship (18) | 720-880 | Bachelor's by dept. | 1
| Teaching Assistantship (5) | 600 | Ph.D. (1972-1974 incl.) | P&S 12. Total: 12
| Research Assistantship** | 8 Teaching | 9
| Scholarship* | grading | 20-40

* Handled on an individual basis within the department.

** How many to be offered unknown.

Lowell Technological Institute, Lowell 01854

| DEPARTMENT OF MATHEMATICS | Applications due: 5/15/75 | Bachelor's by inst. | 700
| I.J. Weinberg, Head | Teaching Assistantship (5) | 3000 | Bachelor's by dept. | 45
| | 9 | Master's by dept. | 3

Massachusetts Institute of Technology, Cambridge 02139

| DEPARTMENT OF MATHEMATICS | Applications due: 1/15/75 | Bachelor's by inst. | 1065
| Kenneth Hoffman, Head | Fellowship (44) | 2700 | Bachelor's by dept. | 112
| | 3600 | Master's by dept. | 1
| Teaching Assistantship (47) | 3600 | 9 | Teaching or Ph.D. (1972-1974 incl.) |
| | 16 | papers |
| Research Assistantship (9) | 6500 | 9 | A&NT 6, G&T 22, L 9, |
| | 3350 | A&FA 14, P&S 5, CS 11, |
| | 16 | AM 13, Other 5. Total: 85

Northeastern University, Boston 02115

| DEPARTMENT OF MATHEMATICS | Applications due: 3/15/75 | Bachelor's by inst. | 2386
| David Epstein, Chairman | Teaching Assistantship (32) | 2800-3200 | Bachelor's by dept. | 63
| Scholarship (Tuition) (6) | 9 | Master's by dept. | 19
| 4-6 | Teaching or conference hours |
| | 4-8 | G&T 2, A&FA 5, Other 1. Total: 8

Tufts University, Medford 02155

| DEPARTMENT OF MATHEMATICS | Applications due: 3/15/75 | Bachelor's by inst. | 1005
| George F. Leger, Chairman | Teaching Assistantship (3 1/2) | 2225-2500 | Bachelor's by dept. | 30
| Scholarship (7) | Full tuition | Master's by dept. | 3
| 3300 | Ph.D. (1972-1974 incl.) |
| | 20 | G&T 2, A&FA 5, Other 1. Total: 8

University of Massachusetts, Amherst 01002

| DEPARTMENT OF MATHEMATICS AND STATISTICS | Applications due: 2/1/75 | Bachelor's by inst. | 4382
| Robert J. Blattner, Head | Fellowship (1) | 2800 | Bachelor's by dept. | 77
| Teaching Assistantship (48)* | 3600-4168 | Master's by dept. | 15
| 9 | Ph.D. (1972-1974 incl.) |
| 6-8 | Teaching and grading |

*Includes teaching assistants and teaching associates.
DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

Michael A. Arbib, Chairman

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University of Massachusetts at Boston 02125

DEPARTMENT OF MATHEMATICS

Applications due: 3/1/75

Alfonso G. Azpeitia and Taffee T. Tanimoto, Co-Chairmen

Teaching Assistantship (6) 3000 9 6 Teaching

Worcester Polytechnic Institute, Worcester 01609

DEPARTMENT OF MATHEMATICS

Applications due: 3/1/75

J. J. Malone, Chairman

Teaching Assistantship (7) 2500 9 10-12 Assisting

MICHIGAN

Andrews University, Berrien Springs 49104

DEPARTMENT OF MATHEMATICAL SCIENCES

Applications due: 3/15/75

Harold T. Jones, Chairman

Teaching Assistantship (4) 2600 9 1170 10 Teaching or paper grading

Central Michigan University, Mount Pleasant 48858

DEPARTMENT OF MATHEMATICS

Applications due: 3/15/75

Thomas J. Miles, Chairman

Fellowship (0-2) 1500-2500 9 25/sem.hr. 6

Teaching Assistantship (9) 3000-3250 9 25/sem.hr. 6

Eastern Michigan University, Ypsilanti 48197

DEPARTMENT OF MATHEMATICS

Applications due: 3/1/75

Robert S. Pate, Head

Teaching Fellowship (6) 3000-3500 9 685 6 Teaching

Michigan State University, East Lansing 48823

DEPARTMENT OF MATHEMATICS

Applications due: 2/20/75

J. E. Adney, Chairman

Fellowship (8) 700-1800 9 17/sem.cr. 15-20 Teaching, paper grading

Teaching Assistantship (104) 3600-4150 9 17/sem.cr. 15-20 Teaching, paper grading

Research Assistantship (2) 3800 17/sem.cr. 17/sem.cr.

Scholarship (3) 500 17/sem.cr.

UNIVERSITY OF MASSACHUSETTS (BOSTON)

Assistant or Associate Professor

Primary interest is for applied statistics and/or computing but particularly strong candidates in other fields will be considered.

A new program in management is projected so there may be further openings for which experience in this area will be valuable.

Strong mathematical and teaching ability is required.

Send resume and letters of recommendation to

Robert Seeley, Mathematics Department, College I
UNIVERSITY OF MASSACHUSETTS
Boston, Massachusetts 02125
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<td>DEPARTMENT OF STATISTICS AND PROBABILITY</td>
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<td>James Stapleton, Chairman</td>
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<td>Zane C. Motzeler, Head</td>
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<td>George F. Feeman, Chairman</td>
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*Tuition normally waived.*

University of Detroit, Detroit 48221

DEPARTMENT OF MATHEMATICS

Karl W. Foley, Chairman

Teaching Fellowship (5) 2400 8 6-8 Teaching

*At least 8 weeks before term.*

University of Michigan, Ann Arbor 48104

DEPARTMENT OF MATHEMATICS

F. W. Gehring, Chairman

Fellowship (8)* 2000-3600 9 880-2840 Full time study/research

Teaching Assistantship (5) 2426-4167 9 880-1096 Full time study

Scholarship (5) 2475-3690 9 Full time study

Student Assistantship (60) 600-1800 9 880-2840 Grade papers

*All types, including University, State and Actuarial Science Fellowships. Some are available on a 12 month basis with a proportionally higher stipend.

**Approximately 10 of these fellowships will be combination appointments.

***Primarily for students in Actuarial Science.

Primarily for students of certain minority groups.

Undergraduate students also used in this category (approximately 1/3).

DEPARTMENT OF BIOSTATISTICS

Richard G. Cornell, Chairman

Fellowship (15) 2000-5600 9 * 10 Research

Research Assistantship (10) 1000-5600 9 * 10-20 Research

In-state: Master of Public Health, $780; Ph. D. (pre-candidacy), $548; Ph. D. (candidacy), $336. Out-of-state: Master of Public Health $1580; Ph. D. (pre-candidacy), $1420; Ph. D. (candidacy), $336.

DEPARTMENT OF COMPUTER AND COMMUNICATION SCIENCES

Bernard A. Galler, Chairman

Fellowship (4) 2400 9

Teaching Assistantship (30) 1952 8 548* 10 Teaching

Research Assistantship (15) 1952 8 548* 10 Research

*Minimum.
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<th>TUITION SERVICE REQUIRED</th>
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<td><strong>DEPARTMENT OF STATISTICS</strong></td>
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<tr>
<td>William A. Ericson, Chairman</td>
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<tr>
<td>Teaching Fellowship (5)</td>
<td>2000–2800</td>
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<td><strong>Wayne State University, Detroit 48202</strong></td>
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<tr>
<td>Martin T. Wechsler, Chairman</td>
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<td>Fellowship (4)</td>
<td>3200 9</td>
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<td>Bachelor's by inst. 3613</td>
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<td>2400–4400</td>
<td>9 ** 6 Teaching</td>
<td>Bachelor's by dept. 60</td>
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<td>Teaching Assistantship (35)</td>
<td>3200–3800</td>
<td>9 ** 6 Teaching</td>
<td>Master's by dept. 14</td>
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| *Late applications will be considered if positions are still available. **Up to 8 hours per quarter included in stipend.

**Western Michigan University, Kalamazoo 49001**

| DEPARTMENT OF MATHEMATICS | A. Bruce Clarke, Chairman |         |                           |                 |
| Fellowship (5)            | 3000–4000 8 24/cr. hr. 6 Teaching, research | Bachelor's by inst. 4000 |
| Teaching Assistantship (21)| 3200 8 24/cr. hr. 18 Teaching | Bachelor's by dept. 110 |
| Spring-Summer Assistant- ship (24) | 750 2 24/cr. hr. 18 Teaching | Master's by dept. 15 |
| *Fellowship: 2/15/75; Assistantship: 3/1/75. |

**Bemidji State College, Bemidji 56601**

| DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE | Gerald J. Smith, Chairman |         |                           |                 |
| Teaching Assistantship (2)                   | 2500 9 9.50/qtr. hr. 6–7 | Bachelor's by inst. 926 |

**St. Cloud State College, St. Cloud 56301**

| DEPARTMENT OF MATHEMATICS | Kent F. Carlson, Chairman |         |                           |                 |
| Teaching Assistantship (1) | 2400 9 10, 25/cr. 8 Teaching | Bachelor's by inst. 1723 |

**University of Minnesota, Minneapolis 55455**

| DEPARTMENT OF MATHEMATICS | Johannes C. C. Nitsche, Head |         |                           |                 |
| Fellowship (7)            | 3000–3600 9 2 contract hrs. | Bachelor's by inst. 7000 |
| Teaching Fellowship (3)   | 5533 9 * | Bachelor's by dept. 76 |
| Teaching Assistantship (60)| 3834–4311 9 | Master's by dept. 13 |
| *4–5 contract hours plus related preparation and guiding. |

**DEPARTMENT OF BIOMETRY**

| Marcus O. Kjelsberg, Chairman |         |                           |                 |
| Fellowship (6)                | 2400 12 |                           | Bachelor's by inst. 7000 |
| Teaching Assistantship (5)    | 3834 9  | Bachelor's by dept. 3 |
| Research Assistantship (2)    | 3726 9  | Master's by dept. 9 |
| Ph.D. (1972–1974 incl.), Other 15, Total: 15 |

**DEPARTMENT OF COMPUTER, INFORMATION, AND CONTROL SCIENCES**

| J.B. Rosen, Head |         |                           |                 |
| Teaching Fellowship (2)     | 6000 9 10 Varies | Bachelor's by inst. 7000 |
| Teaching Assistantship (10) | 4000–4500 9 750 15 Varies | Bachelor's by dept. 30 |
| Research Assistantship (8)  | 4000–4500 9 750 15 Research | Master's by dept. 15 |
| Ph.D. (1972–1974 incl.), CS 6, Total: 6 |
### MISISSIPPI

**Mississippi State University, Mississippi State 39762**

**DEPARTMENT OF MATHEMATICS**
Thomas A. Atchison, Head

<table>
<thead>
<tr>
<th>Fellowship (4)</th>
<th>2000</th>
<th>9</th>
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<th>Teaching</th>
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<td>1650-3300</td>
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<td>250</td>
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**University of Mississippi, University 38677**

**DEPARTMENT OF MATHEMATICS**
Roy D. Sheffield, Chairman

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<th>Fellowship (3)</th>
<th>2000-2600</th>
<th>9-12</th>
<th>256/sem.</th>
<th>6</th>
<th>Teaching</th>
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**University of Southern Mississippi, Hattiesburg 39401**

**DEPARTMENT OF MATHEMATICS**
James Caveny, Chairman

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<th>Fellowship (3)</th>
<th>1500-2000</th>
<th>9</th>
<th>20</th>
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<td>Teaching Assistantship (2)</td>
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<td>Teach 2 subjects</td>
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### MISSOURI

**Central Missouri State University, Warrensburg 64093**

**DEPARTMENT OF MATHEMATICS**
H. Keith Stumpf, Head

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<th>Teaching Assistantship (6)</th>
<th>1800-3600</th>
<th>9</th>
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**Northeast Missouri State University, Kirksville 63501**

**DEPARTMENT OF MATHEMATICS**
Dale Woods, Head

| Teaching Assistantship (6) | 2000 | 9 | 20/sem.hr. | 3 |
| Scholarship (4) | 1000 | 9 | 20/sem.hr. | 3 |

**St. Louis University, St. Louis 63103**

**DEPARTMENT OF MATHEMATICS**
Raymond Freese, Chairman

| Teaching Fellowship (6) | 2500 | 9 | 75/sem.hr. | 6 |

**Southwest Missouri State University, Springfield 65802**

**DEPARTMENT OF MATHEMATICS**
L. T. Shiflett, Head

| Teaching Assistantship (4) | 2500 | 9 | 360/hr. | 20 |

**University of Missouri-Columbia 65201**

**DEPARTMENT OF MATHEMATICS**
J. L. Zemmer, Chairman

| Teaching Assistantship (60) | 3200-3500 | 9 | 540 | 6-7 |

*Reduced rate.*
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<td>(with number anticipated 1976-1977)</td>
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<tr>
<td>Teaching Assistantship (5)</td>
<td>3200</td>
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<td>270(6)</td>
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<td>Research Assistantship (4)</td>
<td>4400</td>
<td>12</td>
<td>270(20)</td>
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<td>Frederick Williams, Chairman</td>
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<td>Teaching Assistantship (15)</td>
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<td>Research Assistantship (1)</td>
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<td>7900</td>
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<td>*To be sure of consideration.</td>
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<tr>
<td>University of Missouri-Rolla 65401</td>
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<td>Glen Haddock, Chairman</td>
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<td>Teaching Assistantship (34)</td>
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<td>270</td>
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<td>*Fall semester: 3/15/75; Winter semester: 10/15/75.</td>
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<td>Washington University, St. Louis 63130</td>
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<td>Seymour V. Pollack, Acting Chairman</td>
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<td>Bachelor's by dept. 2</td>
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<td>Master's by dept. 5 Ph.D. (1972-1974 incl.) P&amp;S 7. Total: 7</td>
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<td>Applications due: 3/31/75* Bachelor's by inst. 1098</td>
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<td>Bachelor's by dept. 15</td>
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<td>Master's by dept. 4</td>
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<tr>
<td>Application due: 2/15/75 Bachelor's by inst. 888</td>
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<td>Bachelor's by dept. 25</td>
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<td>Application due: * Bachelor's by inst. 1550</td>
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<td>Bachelor's by dept. 16</td>
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<tr>
<td>Application due: 2/15/75 Bachelor's by inst. 525</td>
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<td>Bachelor's by dept. 24</td>
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<td>Master's by dept. 15 Ph.D. (1972-1974 incl.) P&amp;S 3, CS 3, AM 2, Other 5. Total: 12</td>
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<td>Bachelor's by dept. 56</td>
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<tr>
<td>MONTANA</td>
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<td>Montana State University, Bozeman 59715</td>
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<td>Robert D. Engle, Head</td>
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<td>*Variable, maximum of $94/qtr.</td>
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University of Montana, Missoula 59801

DEPARTMENT OF MATHEMATICS
Charles A. Bryan, Chairman

Teaching Fellowship (1) 3000-3600 9-12
Teaching Assistantship (20) 2600-3000 9

Applications due: 4/1/75
Bachelor's by inst. 1215
Bachelor's by dept. 5
Master's by dept. 36
Ph.D. (1972-1974 incl.)
A&NT 1, A&FA 1, CS 2.
Total: 4


Kearney State College, Kearney 68847

DEPARTMENT OF MATHEMATICS, STATISTICS AND
COMPUTER SCIENCE
L. M. Larsen, Chairman

Teaching Assistantship (3) 2500 9
Tuition Waiver (3-5) 300-400 9

Applications due: 4/1/75
Bachelor's by inst. 877
Bachelor's by dept. 70
Master's by dept. 2

University of Nebraska, Lincoln 68508

DEPARTMENT OF MATHEMATICS AND STATISTICS
Edwin Halfar, Acting Chairman

Fellowship (2) 2700-3600 9-12
Teaching Assistantship (30) 3200-3800 9

Applications due: 3/1/75
Bachelor's by inst. 3000
Bachelor's by dept. 50
Master's by dept. 13
Ph.D. (1972-1974 incl.)
A&NT 4, G&T 2, L 1,
A&FA 5. Total: 12

DEPARTMENT OF COMPUTER SCIENCE
George Nagy, Chairman

Teaching Assistantship (10) 3200-3500 9
Research Assistantship (10) 3200-3500 9
Scholarship (2) 1200 9

Applications due: 6/15/75
Bachelor's by inst. 3000
Bachelor's by dept. 41
Master's by dept. 6

Ph. D. in Mathematical Sciences
at the
UNIVERSITY OF MONTANA

This program for the advanced training of college mathematics teachers and other mathematical "generalists" has been developed with the aid of a grant from the Advanced Training Projects, NSF Division of Graduate Education.

It emphasizes breadth of knowledge, skill in the communication of mathematical thought, an awareness of the influence of mathematics on modern society and intellectual life, and the development of a sense of vocation as teacher and scholar. It provides opportunity for traditional or non-traditional thesis work, within pure mathematics or in interdisciplinary projects. For details, please write for the "Ph.D. Packet" to

Chairman, Graduate Committee
Mathematics Department, University of Montana
Missoula, Montana 59801

391
University of Nebraska at Omaha  68101

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Margaret P. Gessaman, Chairwoman
Teaching Assistantship (4)  2720  9  18/cr. hr.  6  Teaching

NEW HAMPSHIRE

Dartmouth College, Hanover 03755

DEPARTMENT OF MATHEMATICS
Richard H. Crowell, Chairman
Teaching Fellowship (20)  2475~3600  9/12  4-10  Teaching
Research Assistantship (2)  2475~3600  9/12  4-10  Teaching

University of New Hampshire, Durham 03824

DEPARTMENT OF MATHEMATICS
M. Evans Munroe, Chairman
Fellowship (1)  3700  12  6  Teaching
Teaching Assistantship (8)  3000  9  6  Teaching
Scholarship (Tuition) (2)

NEW JERSEY

Fairleigh Dickinson University, Madison 07940

DEPARTMENT OF MATHEMATICS AND PHYSICS
Hussein A. Elkholy, Chairman
Teaching Fellowship (2)  2887.50  6  Teaching

Fairleigh Dickinson University, Teaneck 07666

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Richard Bronson, Chairman
Teaching Fellowship (7)  2887~3937  12  6  Teaching

Montclair State College, Upper Montclair 07043

DEPARTMENT OF MATHEMATICS
James H. Stoddard, Chairman
Teaching Assistantship (4)  2500  9  6  Teaching

New Jersey Institute of Technology, Newark 07102

DEPARTMENT OF MATHEMATICS
Henry Zatzkis, Chairman
Fellowship (2)  2100~3400  9  6  Teaching
Teaching Assistantship (2)  3300~3750  9  20  Research
Research Assistantship (2)  2700~3400  9  20  Research
Exchange Fellowship (2)  2700~3400  9  20  Research

Princeton University, Princeton 08540

DEPARTMENT OF MATHEMATICS
Joseph J. Kohn, Chairman
Fellowship (30)  1700~5400  9~12  20  Ph.D. (1972~1974 incl.)
Teaching Assistantship (10)*  3200~3800  10  20  A&NT 14, G&T 27, L 2
Research Assistantship (12)*  2500~3000  10  20  A&FA 13, P&S 1, CS 2,
Scholarship (2)  1800  10  Other 2. Total: 61
*One-half teaching and one-half research.

DEPARTMENT OF STATISTICS
Geoffrey S. Watson, Chairman
Teaching Assistantship (4)  3200~3800  9  15~18  Teaching
Research Assistantship (9)  2500~3000  9  20  Research
Scholarship (1)  3600  9

*For two semesters.
DEPARTMENT OF ELECTRICAL ENGINEERING
Bruce W. Arden, Chairman

Fellowship (2) 10
Teaching Assistantship (18) 3200–3800 10
Research Assistantship (45) 2500–3000 10
Industry (11) 10

DEGREES AWARDED
Applications due: *1/15/75 for Fall consideration and for new students.

Rutgers University, New Brunswick 08903

DEPARTMENT OF MATHEMATICS
Kenneth G. Wolfson, Chairman

Applications due: 3/1/75
Teaching Assistantship (45) 3710–4080 9
Research Assistantship (18) 3710–4080 9

DEPARTMENT OF STATISTICS
Arthur Cohen, Chairman

Applications due: 3/1/75
Teaching Assistantship (9) 1855–4080 9
Research Assistantship (8) 1855–4080 9

Seton Hall University, South Orange 07079

DEPARTMENT OF MATHEMATICS
Charles H. Franke, Chairman

Applications due: 3/15/75
Teaching Assistantship (9) 2000–2200 9

Trenton State College, Trenton 08625

DEPARTMENT OF MATHEMATICS
Siegfried Haenisch, Chairman

Applications due: 6/1/75
Research Assistantship (2) 2000 9

RUTGERS UNIVERSITY
The State University of New Jersey
Graduate Study in Mathematics toward the M.S. or Ph.D. degree

FIELDS: Algebra (group theory, ring theory, category theory, commutative algebra, and non-associative algebra); Analysis (real analysis, complex analysis, differential equations, functional analysis, non-linear functional analysis, numerical analysis, and linear and non-linear programming); Geometry (algebraic geometry, differential geometry, and Lie groups); Logic (axiomatic set theory, model theory, and recursive functions); Topology (point-set topology, algebraic topology, and differential topology).

The graduate program in Applied Mathematics includes the areas of control and systems theory, economics, hydrodynamics, mathematical biology, mathematical physics, numerical analysis, psychology, and social and environmental science.

FACILITIES: The mathematics library contains about 20,000 volumes and receives approximately 310 journals. This collection is housed in the new Mathematical Sciences building. Every graduate student is assigned an individual desk in a graduate student office. The department sponsors more than 140 seminars each year. The University has an IBM 370/158 computer and a digital equipment PDP-10; a number of terminals are available for time-sharing use.

FINANCIAL AID: Government-sponsored fellowships and numerous research and teaching assistantships are available; each applicant for an assistantship will also be considered for these other awards. Apply by March 1, 1975.

APPLICATION FORMS: Write to

Graduate Admissions Office
RUTGERS UNIVERSITY
New Brunswick, New Jersey 08903
New Mexico Highlands University, Las Vegas 87701

DEPARTMENT OF PHYSICS AND MATHEMATICS
K.A. Kirkpatrick, Chairman
Teaching Assistantship (3) 1800 9 12 Tutoring

New Mexico Institute of Mining and Technology, Socorro 87801

DEPARTMENT OF MATHEMATICS
Ralph W. Ball, Chairman
Teaching Assistantship (5) 2600-2750 9 110 ≤ 6 Teaching
DEPARTMENT OF COMPUTER SCIENCE
T.A. Nartker, Head
Teaching Assistantship (3) 2600-2750 9 110 20 Teaching
Computing Center (2) 3000-4200 12 110 20 Applications programming

New Mexico State University, Las Cruces 88003

DEPARTMENT OF MATHEMATICAL SCIENCES
John B. Giever, Acting Chairman
Fellowship (1) 3100-3200 9 20 Teaching related
Teaching Assistantship (23) 2700-3100 9 20 Teaching related
Research Assistantship (2) 3100-3500 9 200/sem. 20 Varied research, teaching
Teaching Associate (4) 3500 9 20 Classroom teaching

University of New Mexico, Albuquerque 87131

DEPARTMENT OF MATHEMATICS AND STATISTICS
Art Steger, Chairman
Teaching Assistantship (25) 2700-3000 9 20 Teaching, tutoring, assisting
Scholarship (1) Tuition waived only

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NEW MEXICO STATE UNIVERSITY

A Mathematical Oasis in the Sunny Southwest

The Department of Mathematical Sciences offers programs leading to the M.S. and Ph.D. degrees. While maintaining its strong program in pure mathematics, the department has broadened its course offerings in applied mathematics and statistics for those students who plan a nonacademic career. Private offices are provided for all teaching assistants and fellows. There are two terminals in the mathematics building providing access to the university's IBM360-65 computer. As there are 32 faculty members and approximately 30 graduate students there is ample opportunity for close contact between students and faculty.

Write: Prof. Ray Mines, Dept. Mathematical Sciences
Box MB, NMSU, Las Cruces, New Mexico 88003

New York

Adelphi University, Garden City 11530

Department of Mathematics
Donald Hammer, Chairman

Teaching Assistantship (11)
2400-3710 9
Teaching 5-6
Programming 20

Research Assistantship (2)
2837-3056 9

Scholarship (7)

Applications due: 2/15/75
Bachelor's by inst. 1117
Bachelor's by dept. 20
Master's by dept. 54
Ph.D. (1972-1974 incl.)
A&NT 5, P&S 1, CS 3,
AM 1. Total: 10

City University of New York, Brooklyn College, Brooklyn 11210

Department of Mathematics
Lester L. Gavurin, Chairman

Teaching Fellowship (2)
6350-8775 9
Teaching 8

Applications due: 4/1/75
Bachelor's by inst. 3687
Bachelor's by dept. 89
Master's by dept. 17

City University of New York, City College, New York 10031

Department of Mathematics
Jonah Mann, Chairman

Fellowship (1)
2000-4760 9
450/sem. 0-4
Teaching

Teaching Assistantship (14)
2760-5520 9
450/sem. 4-8
Teaching

Applications due: 3/1/75
Bachelor's by inst. 1673
Bachelor's by dept. 86
Master's by dept. 7
Ph.D. (1972-1974 incl.)
A&NT 2, G&T 7, L 1,
A&FA 6, AM 2. Total: 18

City University of New York, Graduate Center, New York 10036

Department of Mathematics
Richard Sack, Executive Officer

Fellowship (5)
2000-3600 9
Varies
Teaching

Teaching Fellowship (45)
2200-6600 9
Yes 3-9
Teaching

Research Assistantship (5)
4000-6000 9
Yes Varies

Applications due: 4/1/75
Ph.D. (1972-1974 incl.)
A&NT 5, P&S 1, CS 3,
AM 1. Total: 10

City University of New York, Hunter College, New York 10021

Department of Mathematics
Barry Cherkas, Chairman

Teaching Assistantship (14)
3960-4620 9
45/cr. 6-7
Teaching

Scholarship (1)
1000

Part-time lecturer (2)
6350 9
45/cr. 6-8
Teaching

Applications due: 2/20/75
Bachelor's by inst. 1915
Bachelor's by dept. 59
Master's by dept. 11

City University of New York, Queens College, Flushing 11367

Department of Mathematics
Joseph Hershenov, Chairman

Teaching Assistantship (4)
1980-6350 9
45/cr. 3-8 Teaching

Applications due: 4/1/75
Bachelor's by inst. 3824
Bachelor's by dept. 100
Master's by dept. 5

The Doctoral Program in Mathematics of The City University of New York

is at the Graduate School and University Center Building of CUNY in Mid-Manhattan, opposite the Public Library and Bryant Park.

Advanced students have office space and there is an excellent department library. The student body is small enough to facilitate close contact with the staff.


For a description of courses currently offered and other information, write to the

Executive Officer in Mathematics
Graduate School
THE CITY UNIVERSITY OF NEW YORK
33 West 42nd Street
New York, New York 10036

395
<table>
<thead>
<tr>
<th>TYPE</th>
<th>STIPEND</th>
<th>TUITION</th>
<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
<th>Academic year 1974-1975</th>
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<td><strong>Clarkson College of Technology, Potsdam 13676</strong></td>
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<tr>
<td><strong>DEPARTMENT OF MATHEMATICS</strong></td>
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<tr>
<td>Alan C. Newell, Chairman</td>
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<tr>
<td>Teaching Assistantship (6)</td>
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<td>*Plus tuition.</td>
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<td><strong>Columbia University, New York 10027</strong></td>
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<td>Lipman Bers, Chairman</td>
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<tr>
<td>Fellowship (30)*</td>
<td>2850-3800</td>
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<td>*All graduate students are given four nine-month years of support. 1974-1975 the stipend is $316.66 per month (tuition, fees and student health insurance exempt). Two years of teaching, approximately 15 hours per week are a Ph. D. requirement. The granting of a fellowship or a graduate research assistantship is arbitrary, depending mostly on outside (extra-University) funds available.</td>
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<td><strong>DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE</strong></td>
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<td>Omar Wing, Chairman</td>
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<td>Fellowship (5)</td>
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<td>5690-5890</td>
<td>9</td>
<td>20</td>
<td>Research</td>
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<td>Research Assistantship (6)</td>
<td>6390-6990</td>
<td>12</td>
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<td>Scholarship (4)</td>
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<td>Graders*</td>
<td>200-600</td>
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<td>Readers*</td>
<td>1556-1956</td>
<td>9</td>
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<td>*About 6 readers and graders are appointed for each term. **Hours depend on course assigned.</td>
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<td><strong>DEPARTMENT OF MATHEMATICAL STATISTICS</strong></td>
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<tr>
<td>Herbert E. Robbins, Chairman</td>
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<td>Fellowship (15)</td>
<td>275/mo.</td>
<td>9-12</td>
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<td>Research Assistantship (4)</td>
<td>275/mo.</td>
<td>9-12</td>
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<td>*Up to 10 hours teaching required of all students in second and third years.</td>
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<td><strong>Cornell University, Ithaca 14850</strong></td>
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<td>O. S. Rothaus, Chairman</td>
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<tr>
<td>Fellowship (4)</td>
<td>2000</td>
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<td>Teaching Assistantship (52)</td>
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<td>NSF Research Assistantship (2)</td>
<td>2600</td>
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<td>*Usually combined with 1/3 Teaching Assistantship.</td>
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<td><strong>N.Y. STATE COLLEGE OF AGRICULTURE AND LIFE SCIENCE</strong></td>
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<td><strong>BIOMETRICS UNIT, PLANT BREEDING &amp; BIOMETRY</strong></td>
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<td>W.T. Federer, Chairman</td>
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<td>NIH Traineeship (1)</td>
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<td><strong>CENTER FOR APPLIED MATHEMATICS</strong></td>
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<td>James H. Bramble, Director</td>
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<td>Research Assistantship (3)</td>
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<td>9 &amp; 12</td>
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<td>Master's by dept. 1</td>
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<tr>
<td><strong>DEPARTMENT OF COMPUTER SCIENCE</strong></td>
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<tr>
<td>Gerard Salton, Chairman</td>
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<td>Teaching Assistantship (25)</td>
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<td>Research Assistantship (11)</td>
<td>2800</td>
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<td>15</td>
<td>Bachelor's by dept. 20</td>
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</tbody>
</table>

396
**DEPARTMENT OF OPERATIONS RESEARCH**

Robert E. Bechhofer, Chairman

- Fellowship (5)  
  - Stipend: 6200-7700  
  - Hours per week: 9
- Teaching Assistantship (14)  
  - Stipend: 6600-7100  
  - Hours per week: 15
- Research Assistantship (9)  
  - Stipend: 6400-6900  
  - Hours per week: 15

**Tuition:**

- If not included in stipend: 9 or 12 hours

**Service Required:**

- Type of service (with number anticipated 1975-1976) in dollars per week

**Applications due:** 2/1/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 1616
- Bachelor’s by dept.: 71
- Master’s by dept.: 10
- Ph.D. (1972-1974 incl.): F&S 9, CS 3, AM 3, Other 5. Total: 20

**Fordham University, New York 10458**

**DEPARTMENT OF MATHEMATICS**

Yuh-ching Chen, Chairman

- Fellowship (1)  
  - Stipend: 2300-3000  
  - Teaching: 1
- Teaching Fellowship (4)  
  - Stipend: 2300-3000  
  - Teaching: 3
- Teaching Assistantship (7)  
  - Stipend: 2300-3000  
  - Teaching: 8
- Scholarship (10)  
  - Stipend: 9

**Tuition:**

- If not included in stipend: 9

**Applications due:** 2/1/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 1596
- Bachelor’s by dept.: 28
- Master’s by dept.: 5

**Hofstra University, Hempstead 11550**

**DEPARTMENT OF MATHEMATICS**

Robert Bumcroft, Chairman

- Fellowship (2 or 3)  
  - Stipend: 2760  
  - Tutoring: 3
- Teaching Assistantship (2)  
  - Stipend: 750-4500  
  - Teaching: 3-6
- Graders (2)  
  - Stipend: varies  
  - Grading: Varies

**Tuition:**

- If not included in stipend: 9 or 12

**Applications due:** 2/15/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 1583
- Bachelor’s by dept.: 28
- Master’s by dept.: 1

**Long Island University, Brooklyn 11201**

**DEPARTMENT OF MATHEMATICS**

Morton J. Hellman, Chairman

- Teaching Fellowship (1)  
  - Stipend: 2200  
  - Teaching: 9
- Teaching Assistantship (3)  
  - Stipend: 1800-2100  
  - Teaching: 9

**Tuition:**

- If not included in stipend: 9

**Applications due:** 3/1/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 340
- Bachelor’s by dept.: 15
- Master’s by dept.: 12

**Long Island University, C. W. Post College, Greenvale 11548**

**DEPARTMENT OF MATHEMATICS**

John C. Stevenson, Chairman

- Teaching Assistantship (3)  
  - Stipend: 1800-2100  
  - Teaching: 15

**Tuition:**

- If not included in stipend: 9

**Applications due:** 6/1/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 452
- Bachelor’s by dept.: 13
- Master’s by dept.: 12

**New York University—Courant Institute of Mathematical Sciences, New York 10012**

**DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE**

Peter D. Lax, Director

- Fellowship (7)  
  - Stipend: 2550-3800  
  - Individual: 12
- Teaching Assistantship (3)  
  - Stipend: 2700  
  - Tutoring: 12
- Research Assistantship (10)  
  - Stipend: 2550-3800  
  - Individual: 12

**Tuition:**

- If not included in stipend: 9

**Applications due:** 1/15/75

**DEGREES AWARDED**


**Polytechnic Institute of New York, Brooklyn 11201**

**DEPARTMENT OF MATHEMATICS**

H. Hochstadt, Head

- Teaching Fellowship (12)  
  - Stipend: 2000-2400  
  - Teaching: 9

**Tuition:**

- If not included in stipend: 9

**Applications due:** 3/1/75

**DEGREES AWARDED**

- Bachelor’s by inst.: 347
- Bachelor’s by dept.: 30
- Master’s by dept.: 24
- Ph.D. (1972-1974 incl.): A&NT 2, G&T 1, A&FA 16, P&S 1, CS 1, AM 2. Total: 23
Rensselaer Polytechnic Institute, Troy 12181

DEPARTMENT OF MATHEMATICAL SCIENCES
Richard C. DiPrima, Chairman
Teaching Assistantship (30) 2800-3600 9
Applications due: 2/1/75
B.S., B.E., B. Arch., 805
Ph.D. (1972-1974 incl.), 37

Research Assistantship (6) 2800-3600 9

Scholarship (30)*

*Fully or partially waived.

St. John's University, Staten Island 10301

DIVISION OF MATHEMATICS AND SCIENCE
Michael Capobianco, Chairman
Graduate Assistantship (1) 2200-2400 9
Applications due: 3/15/75
Bachelor's by inst. 100

State University College at Brockport 14420

DEPARTMENT OF MATHEMATICS
Edward O. Stephany, Chairman
Teaching Assistantship (3) 2500* 9
Applications due: 3/15/75
Bachelor's by dept. 97

*Plus tuition.

State University College at Buffalo 14222

DEPARTMENT OF MATHEMATICS
Richard A. Wiesen, Chairman
Teaching Assistantship (4-6) 2750-3000 9
Applications due: 2/15/75
Bachelor's by dept. 40

* Up to 11 semester hours waived.

State University College at Cortland 13045

DEPARTMENT OF MATHEMATICS
Thomas O'Loughlin, Chairman
Teaching Assistantship** 2500 9
Applications due:* Bachelor's by inst. 1115

*First week of February.

**Number not known at this time.

State University College at Fredonia 14063

DEPARTMENT OF MATHEMATICS
Frank R. Olson, Chairman
Teaching Assistantship (4) 2200 9
Applications due: 4/15/75
Bachelor's by inst. 891

State University College at New Paltz 12561

DEPARTMENT OF MATHEMATICS
Salvatore Anastasio, Chairman
Teaching Assistantship (4) 2700-3000 9
Applications due: 3/15/75
Bachelor's by inst. 1179

*Teaching assistantships are sometimes awarded to qualified full-time M.S. in Education Candidates.

ST. JOHN'S UNIVERSITY

An urban university in a suburban setting...within easy travel distance of some of the world's richest cultural and research resources.

The Mathematics faculty is actively engaged in research relating to fluid dynamics, diffraction theory, graph theory, statistics, operations research, ordinary differential equations, control theory, functional analysis, point set topology, elasticity, and computer science.

Graduate work leading to the Master of Arts is offered in both pure and applied mathematics.

Approximately twelve graduate assistantships will be available for the academic year 1975-76.

Interested students are requested to write:

Edward J. Miranda, Chairman
Department of Mathematics and Computer Science—St. John's University
Jamaica, New York 11439
State University College at Oswego 13126

DEPARTMENT OF MATHEMATICS
Richard C. Orr, Chairman

Teaching Assistantship (8) 2800 9

Applications due: 3/1/75
Bachelor's by inst. 1641
Bachelor's by dept.  61
Master's by dept.  3

State University of New York at Albany 12222

DEPARTMENT OF MATHEMATICS
Hajimu Ogawa, Chairman

Teaching Assistantship (20) 2800-3300* 9

Applications due: 3/1/75
Bachelor's by inst. 1421
Bachelor's by dept.  177
Master's by dept.  4
Ph. D. (1972-1974 incl.)
G&T 2, A&FA 7. Total: 9

*Contingent upon legislative approval.

State University of New York at Binghamton 13901

DEPARTMENT OF MATHEMATICAL SCIENCES
Louis McAuley, Chairman

Fellowship (7) 3000-3600 Varies
Teaching Fellowship (6) 1000-3500 9
Teaching Assistantship (13) 2500-3500 9
Graduate Assistantship (12) 2000-3250 9

Applications due: 3/15/75
Bachelor's by inst. 1133
Bachelor's by dept.  30
Master's by dept.  10
Ph. D. (1972-1974 incl.)

STATE UNIVERSITY OF NEW YORK AT ALBANY

SUNY at Albany offers graduate courses in pure and applied mathematics toward the M.A. and Ph.D. degrees. Classes are small, and many opportunities exist for individual work with faculty members. The faculty is relatively young, highly active in research, and is known for its scholarly contributions to mathematics. Faculty-student seminars on current research work are held each semester. There is a varied program of visiting mathematicians for colloquia and symposia. The library holdings in mathematics are excellent and contain over 200 current subscriptions to mathematical journals. The department's teletype terminals access the University's UNIVAC 1110.

Studies leading to the Ph.D. are offered in the following fields: algebra, algebraic geometry, algebraic topology, commutative algebra, complex analysis, control theory, differential topology, ergodic theory, functional analysis, function algebras, geometry, global analysis, harmonic analysis, number theory, partial differential equations, probability, real analysis, several complex variables, statistics, stochastic processes, summability, transformation groups.


For information on financial assistance and application procedures write to:

Graduate Chairman
Department of Mathematics
SUNY AT ALBANY
Albany, New York 12222

(An Equal Opportunity Employer)
State University of New York at Buffalo, Amherst 14226

DEPARTMENT OF MATHEMATICS
Nicholas D. Kazarinoff, Chairman

Fellowship (varies) 3000-4000 optional
Teaching Assistantship (30) 3000-3500 9
Graduate Assistantship (14) 3000-3500 9

Applications due:* Bachelor's by inst. 3271
Bachelor's by dept. 55
Master's by dept. 38
Ph. D. (1972-1974 incl.)
Graduate Assistantship (14)

*Fellowship: 1/15/75; Assistantship: 2/14/75.

DEPARTMENT OF COMPUTER SCIENCE
Anthony Ralston, Chairman

Fellowship (4) 3000-4000 12
Teaching Assistantship (8) 3200-3500 9
Research Assistantship (7) 3200-3500 9
Graduate Assistantship (8) 3200-3500 9

Applications due: 2/15/75 Bachelor's by inst. 3271
Bachelor's by dept. 26
Master's by dept. 12
Ph. D. (1972-1974 incl.)

DEPARTMENT OF COMPUTER SCIENCE, STATISTICAL
SCIENCE DIVISION
Emanuel Parzen, Director

Fellowship (2) 3000-4000 12
Teaching Assistantship (7) 3200-3500 9
Research Assistantship (5) 2800-4000 12

Applications due: 2/1/75 Bachelor's by inst. 3271
Bachelor's by dept.*

*This is a new division and has not yet awarded any degrees.

STATE UNIVERSITY OF NEW YORK AT BUFFALO

Graduate assistantships are available in various amounts (this year from $3000 to $3600) with remission of tuition. Duties may include lecturing, conducting recitation sections or grading papers. Also, SUNY at Buffalo offers graduate fellowships at $3000 per nine months, tenable for one year. Last year three of these fellowships were awarded to students in the Department of Mathematics. A number of summer teaching appointments are customarily offered.

SUNY at Buffalo has an active program in graduate mathematics leading to both M.A. and Ph.D. degrees. Doctorates are offered in algebra, real and complex analysis, differential equations, applied mathematics, functional analysis, logic, number theory, and topology. Interdisciplinary work, especially in mathematical biology, is being expanded and encouraged. For additional information and application forms, write to:

Director of Graduate Studies—Department of Mathematics

STATE UNIVERSITY OF NEW YORK AT BUFFALO
14246 Ridge Lea Road—Amherst, New York 14226

STATE UNIVERSITY OF NEW YORK AT BUFFALO
The Department of Mathematics will award George William Hill and Emmy Noether Research Instructorships to young mathematicians who are recent Ph.D.'s, thereby enabling them to carry forward a research program. All requirements for the Ph.D. must be completed by September 1, 1975. At least one and not more than two Research Instructorships will be awarded for 1975—1977 with each appointment being for two years. The twelve-month stipend, beginning September 1975, is $16,200 including generous staff benefits. Teaching load will total two one-semester courses during the twelve-month period. Upon expiration of the two-year appointment, priority consideration for a three-year appointment as assistant professor will be given and will be based upon success and potential in both research and teaching. Each applicant should prepare a summary of his or her post-high school educational background, as well as a sketch of past and projected research activity, and should request at least three mathematicians to send letters of recommendation. Application forms are available upon request. Applications and supporting letters should be sent to Professor N. D. Kazarinoff, Chairman—Department of Mathematics
SUNY at Buffalo—4246 Ridge Lea Road—Amherst, New York 14226
so as to arrive by January 20, 1975. Appointments will be made shortly thereafter. SUNY at Buffalo is an Equal Opportunity/Affirmative Action Employer. We especially invite applications from women and minority mathematicians.
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<td>Lewis A. Coburn, Chairman</td>
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Bachelor's by inst. 2151
Bachelor's by dept. 59
Master's by dept. 27
Ph.D. (1972-1974 incl.)
Total: 19

Bachelor's by inst. 2151
Bachelor's by dept. 41
Master's by dept. 30
Ph.D. (1972-1974 incl.)
AM 17, Total: 17

Bachelor's by inst. 2151
Bachelor's by dept. 100
Master's by dept. 21
Ph.D. (1972-1974 incl.)
A&NT 6, G&T 3, A&FA 10, Other 2.
Total: 21

Bachelor's by inst. 2433
Bachelor's by dept. 22
Master's by dept. 13
Ph.D. (1972-1974 incl.)
A&NT 6, G&T 3, A&FA 10, Other 2.
Total: 21

Bachelor's by inst. 2433
Ph.D. (1972-1974 incl.)
CS 35, Total: 25

Bachelor's by inst. 1171
Bachelor's by dept. 41
Master's by dept. 9
Ph.D. (1972-1974 incl.)
A&NT 6, G&T 8, A&FA 5, P&S 1, Other 1.
Total: 21

Bachelor's by inst. 500
Bachelor's by dept. 30
Master's by dept. 15
Ph.D. (1972-1974 incl.)
Total: 15

Bachelor's by inst. 1400
Bachelor's by dept. 35
Master's by dept. 8
Duke University, Durham 27706

DEPARTMENT OF MATHEMATICS
Seth L. Warner, Chairman

Fellowship (10) 6000  9  2320  6
Teaching Assistantship (12) 5000  9  288–2320  6

Applications due: 2/15/75
Bachelor’s by inst. 1200
Bachelor’s by dept. 30
Master’s by dept. 3
Ph. D. (1972–1974 incl.)
A&NT 13, G&T 4, L 1,
A&FA 6, P&S 2, CS 1.
Total: 27

East Carolina University, Greenville 27834

DEPARTMENT OF MATHEMATICS
Tullio J. Pignani, Chairman

Teaching Fellowship (13) 2000  9  *  5  Teaching
Computer & Office Institutional Research (4) 2000  9  *  15  Assist in
Computer lab or OIR

Applications due: 3/1/75
Bachelor’s by inst. 1904
Bachelor’s by dept. 40
Master’s by dept. 13


North Carolina A & T State University, Greensboro 27411

DEPARTMENT OF MATHEMATICS
Wendell P. Jones, Chairman

Teaching Assistantship (2) 1800–2200  9  282  15

Applications due: 3/1/75
Bachelor’s by inst. 627
Bachelor’s by dept. 20
Master’s by dept. 2

North Carolina State University, Raleigh 27607

DEPARTMENT OF MATHEMATICS
N. J. Rose, Head

Teaching Assistantship (55) 3500–4400  9  487.50  6  Teaching

Applications due: 3/1/75
Bachelor’s by inst. 2210
Bachelor’s by dept. 65
Master’s by dept. 13
Ph. D. (1972–1974 incl.)
A&NT 6, A&FA 5, AM 1.
Total: 12

DEPARTMENT OF STATISTICS
D. D. Mason, Head

Fellowship (9) 3000*  12
Teaching Assistantship(9) 3100–4500  9  **  0–20  Teaching
Research Assistantship (8) 3600–4500  12  **  0–20  Research

Applications due: 3/1/75
Bachelor’s by inst. 2210
Bachelor’s by dept. 6
Master’s by dept. 5
Ph. D. (1972–1974 incl.)
P&S 3, Other 3. Total: 8

*Maximum figure depends on allowances.
**See catalogue.

University of North Carolina, Chapel Hill 27514

DEPARTMENT OF MATHEMATICS
Fred B. Wright, Chairman

Fellowship (1) 2500*  9  yes
Teaching Fellowship (2) 3850–3150  9  yes  10  Teaching
Teaching Assistantship (22) 3850–3150  9  yes  20  Teaching, assisting
Research Assistantship (2) 250–2500*  9  yes  12  Research

Applications due: 2/1/75
Bachelor’s by inst. 2917
Bachelor’s by dept. 72
Master’s by dept. 10
Ph. D. (1972–1974 incl.)
A&NT 1, G&T 5, A&FA 7,
Other 2. Total: 13

*Amount may be supplemented with partial teaching assistance.

DEPARTMENT OF BIOSTATISTICS
James E. Grizzle, Chairman

Fellowship (41)* 2400–3000  12
Research Assistantship (7) 540–800  12  **  20

Applications due: 2/1/75
Bachelor’s by inst. 2917
Master’s by dept. 14
Ph. D. (1972–1974 incl.)
Other 25. Total: 25

*Approximately half expected to go to current students continuing their study in 1975–1976.
**Tuition per semester: $336.50; summer sessions: $136.50. Field fees of $150 for a national
field observation course and $450 for a field training course for Masters students.
CURRICULUM IN OPERATIONS RESEARCH AND SYSTEMS ANALYSIS
Jon W. Tolle, Chairman

Fellowship (4) 3000-3500 9 450/yr. Teaching
Teaching Assistantship (12) 3000-4000 9 450/yr. 3-6
Research Assistantship (2) 3000-4000 9 450/yr. 3-6

University of North Carolina at Greensboro 27412
DEPARTMENT OF MATHEMATICS
E. E. Posey, Head
Teaching Assistantship (16) 3200 9 320 6 Teaching
Research Assistantship (2) 1200-2400 9 320 Varies Research

Wake Forest University, Winston-Salem 27109
DEPARTMENT OF MATHEMATICS
Ivey C. Gentry, Chairman
Fellowship (4) 3600 9 2200 Teaching
Teaching Assistantship (3) 4600-4800 9 2200 12
Scholarship (3) 2200 9 2200

NORTH DAKOTA
North Dakota State University, Fargo 58102
DEPARTMENT OF MATHEMATICS
Robert F. Tidd, Chairman
Teaching Assistantship (4) 2250-3000 9 25/qtr. 6 Teaching

University of North Dakota, Grand Forks 58202
DEPARTMENT OF MATHEMATICS
Ronald Bzoch, Chairman
Teaching Assistantship (7) 2450 9 6 Teaching

OHIO
Bowling Green State University, Bowling Green 43403
DEPARTMENT OF MATHEMATICS
W. L. Terwilliger, Chairman
Fellowship (4) 2400 12
Teaching Fellowship (9) 3150-4200 9
Teaching Assistantship (15) 2316-3089 9
Research Assistantship (1) 4000 9

DEPARTMENT OF COMPUTER SCIENCE
David L. Fulton, Chairman
Teaching Assistantship (4) 3087 9 20 Teaching
Research Assistantship (6) 3087 9 20 Research

DEAN—COLLEGE OF SCIENCE AND MATHEMATICS
University of North Carolina at Charlotte

The College is comprised of the Departments of Biology, Chemistry, Mathematics, and Physics with a full-time faculty of sixty-one. Applicants should have successful teaching and administrative experience, established scholarship, strong educational interests and should possess an earned doctorate and qualifications for appointment at the rank of Professor in one of the departments. Nominations and applications, including a summary of professional and academic experience and a list of references, should be sent by January 15, 1975 to:

NORMAN W. SCHUL, SEARCH COMMITTEE CHAIRMAN
UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
UNCC STATION
CHARLOTTE, NORTH CAROLINA 28223
AN EQUAL OPPORTUNITY EMPLOYER
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Bachelor's by inst., 3187
Bachelor's by dept., 5
Ph.D. (1972-1974 incl.), 966
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Master's by dept., 18
A&NT 2, G&T 4, L 1, A&FA 5, P&S 11, AM 3. Total: 26
Bachelor's by inst., 966
Master's by dept., 2
Bachelor's by inst., 966
Bachelor's by dept., 22
Master's by dept., 8
CS 19. Total: 19
Bachelor's by inst., 966
Master's by dept., 18
Ph.D. (1972-1974 incl.), 966
Bachelor's by dept., 22
Master's by dept., 8
Other 27. Total: 27
Bachelor's by inst., 1731
Bachelor's by dept., 40
Master's by dept., 8
Bachelor's by inst., 600
Bachelor's by dept., 25
Master's by dept., 4
Bachelor's by inst., 3607
Bachelor's by dept., 37
Master's by dept., 5
Ph.D. (1972-1974 incl.), 966
Bachelor's by dept., 70
Master's by dept., 15
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<tr>
<td>DEPARTMENT OF COMPUTER SCIENCE</td>
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<tr>
<td>J. F. Traub, Head</td>
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<tr>
<td>Research Assistantship (62)</td>
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</table>

*Plus dependency allowance. Additional support often available in summer. This figure reflects 1974 stipends; fall 1975 not yet decided.
**Directed research is a requirement for all students.

DEPARTMENT OF STATISTICS
Joseph B. Kadane, Head

TEACHING ASSISTANTSHIP (12) 275 9 2900 9 Teaching, research

Clarin State College, Clarion 16214

DEPARTMENT OF MATHEMATICS
S. Gendler, Chairman

TEACHING ASSISTANTSHIP (4) 1350-1375 9 42/cr. 10
WORK STUDY (Unlimited) 0-600 9-12 to 15

Bachelor's by inst. 2515
Bachelor's by dept. 45
Master's by dept. 20

Ph.D. (1972-1974 incl.)
A&FA 9, P&S 6, CS 2.
Total: 21

Bachelor's by inst. 2515
Bachelor's by dept. 27
Master's by dept. 13

Bachelor's by inst. 649
Bachelor's by dept. 52
Master's by dept. 3

Ph.D. (1972-1974 incl.)
G&T 4, A&FA 9, CS 1,
AM 4. Total: 18

Ph.D. (1972-1974 incl.)
CS 25. Total: 25

Bachelor's by inst. 649
Bachelor's by dept. 6

Ph.D. (1972-1974 incl.)
P&S 6. Total: 6

Bachelor's by inst. 991
Bachelor's by dept. 49
Master's by dept. 32

407
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<tr>
<th>TYPE OF AID</th>
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<th>DEPARTMENT</th>
<th>HEAD</th>
<th>TUITION</th>
<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
<th>ACADEMIC YEAR</th>
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<tr>
<td></td>
<td>Drexel University, Philadelphia 19104</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Loren N. Argabright, Head</td>
<td>$2,700-$4,000</td>
<td>Teaching 6, Research 20</td>
<td>Bachelor's by inst. 1144, Bachelor's by dept. 61, Master's by dept. 9</td>
<td>1973-1974</td>
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<td></td>
<td>Duquesne University, Pittsburgh 15219</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Robert G. McDermot, Chairman</td>
<td>$2,000</td>
<td>Teaching 6-7</td>
<td>Bachelor's by inst. 1124, Bachelor's by dept. 14, Master's by dept. 3</td>
<td>1973-1974</td>
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<td>Indiana University of Pennsylvania, Indiana 15701</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Melvin R. Woodard, Chairman</td>
<td>$1,200-$2,705</td>
<td>Teaching 20</td>
<td>Bachelor's by inst. 2201, Bachelor's by dept. 105, Master's by dept. 13</td>
<td>1973-1974</td>
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<tr>
<td></td>
<td>Kutztown State College, Kutztown 19530</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Edward W. Evans, Chairman</td>
<td>$2,700</td>
<td>Teaching *</td>
<td>Bachelor's by inst. 700, Bachelor's by dept. 45, Master's by dept. 16</td>
<td>1973-1974</td>
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<tr>
<td></td>
<td>Lehigh University, Bethlehem 18015</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Everett Pitcher, Chairman</td>
<td>$2,400-$3,600 12</td>
<td>Teaching 0-2, Research 2-4</td>
<td>Bachelor's by dept. 11, Master's by dept. 12, Ph. D. (1972-1974 incl.), A&amp;NT 14, G&amp;T 1, L 4, A&amp;FA 5, CS 1, Total: 29</td>
<td>1973-1974</td>
</tr>
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<td>Pennsylvania State University, University Park 16802</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>Paul Axt, Head</td>
<td>$3,636</td>
<td>Teaching 4.5, Research 4.5</td>
<td>Bachelor's by inst. 6871, Bachelor's by dept. 78, Master's by dept. 38, Ph. D. (1972-1974 incl.), A&amp;NT 14, G&amp;T 1, L 4, A&amp;FA 5, CS 1, Other 1. Total: 39</td>
<td>1973-1974</td>
</tr>
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</table>

**DREXEL UNIVERSITY**

The Drexel Mathematics Department offers graduate programs leading to the M. S. and Ph. D. degrees. In addition to the regular masters' degree program is a cooperative M. S. program with cooperating industries during the summers. The Ph. D. program is primarily concentrated in the areas of analysis and applied mathematics. Financial aid is available through teaching and research assistantships, fellowships, and traineeships which carry stipends from $2,700 to $4,000 and a waiver of tuition and fees.

Interested applicants should request further information from:

Dr. Loren N. Argabright, Head, Department of Mathematics
Drexel University
Philadelphia, Pennsylvania 19104
DEPARTMENT OF STATISTICS
William L. Harkness, Head
Fellowship (1) 2555–2800 9
Teaching Assistantship (18) 2800–3800 9
Research Assistantship (6) 2800–3800 9
Consulting (10) 500–3500 9/12 *
Applications due: 3/1/75
Bachelor’s by inst. 6871
Master’s by dept. 13
*In-state: $720; out-of-state $2100.

Shippensburg State College, Shippensburg 17257
DEPARTMENT OF MATHEMATICS
James L. Sieber, Chairman
Teaching Assistantship (3) 2700
Applications due: 4/1/75
Bachelor’s by inst. 744
Bachelor’s by dept. 22
Master’s by dept. 4

Temple University, Philadelphia 19122
DEPARTMENT OF MATHEMATICS
Albert Schild, Chairman
Fellowship (4) 2700–3100 12
Teaching Assistantship (16) 3000–3400 9
Research Assistantship (6) 3000–3400 9
Scholarship (2) 9
Applications due: 3/15/75
Bachelor’s by inst. 3301
Bachelor’s by dept. 30
Master’s by dept. 6

University of Pennsylvania, Philadelphia 19104
DEPARTMENT OF MATHEMATICS
Murray Gerstenhaber, Chairman
Fellowship (25) 3200 9
Applications due: 2/1/75
Bachelor’s by inst. 2004
Bachelor’s by dept. 28
Master’s by dept. 7

DEPARTMENT OF STATISTICS AND
OPERATIONS RESEARCH
John S. deCani, Chairman
Teaching Fellowship (5) 3150–3300 9
Applications due: 2/1/75
Bachelor’s by inst. 2004
Bachelor’s by dept. 8
Ph.D. (1972–1974 incl.) P&S 6, Other 10. Total: 16

University of Pittsburgh, Pittsburgh 15260
DEPARTMENT OF MATHEMATICS AND STATISTICS
W. E. Deskins, Chairman
Fellowship (2) 3000–4200 8
Teaching Fellowship (10) 3100 8
Teaching Assistantship (30) 2900 8
Scholarship (Varies) 1000*** 4
Applications due:* Bachelor’s by inst. 2367
Bachelor’s by dept. 137
Master’s by dept. 10
Ph.D. (1972–1974 incl.) A&NT 1, G&T 6, L 1, A&FA 9, P&S 5, Other 1. Total: 22
*Not specified.
**Grading, assisting in teaching elementary course.
***Covers tuition cost only, Other scholarships are tied to special programs such as minority status, Venezuelan program, etc.

UNIVERSITY OF PENNSYLVANIA

GRADUATE PROGRAMS IN STATISTICS AND IN OPERATIONS RESEARCH

TEACHING FELLOWSHIPS: ------------------------- 9 months, $3,150–$3,300 plus tuition
UNIVERSITY FELLOWSHIPS: --------------------- minimum, $2,400 plus tuition and fees
MANAGEMENT RESEARCH ANALYSTS: ------------ 12 months, $5,400 plus tuition and fees
APPLICATIONS: ----------------- For admission forms and further information, please write to:

The Chairman,
Department of Statistics and Operations Research
E-220 Dietrich Hall
UNIVERSITY OF PENNSYLVANIA
Philadelphia, Pennsylvania 19174

409
DEPARTMENT OF COMPUTER SCIENCE
Orrin E. Taulbee, Chairman

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<td>Teaching Assistantship (8)</td>
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<td>15-18 Research</td>
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<td>Scholarship (2)</td>
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<td>Industry Cooperative Program(4)</td>
<td>3000-4800</td>
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<td>750 20 Industry</td>
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Villanova University, Villanova 19085

DEPARTMENT OF MATHEMATICS
James O. Brooks, Chairman

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<td>Bachelor's by dept. 28</td>
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<td>Master's by dept. 43</td>
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West Chester State College, West Chester 19380

DEPARTMENT OF MATHEMATICAL SCIENCES
Richard G. Branton, Chairman

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<td>Teaching Assistantship (2)</td>
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<td>Non-teaching Assistantship (4)</td>
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<td>9</td>
<td>11-20 Non-teaching service: Statistics lab, Individualized learning</td>
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Wilkes College, Wilkes-Barre 18703

DEPARTMENT OF MATHEMATICS
Bing K. Wong, Chairman

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<td>Teaching Assistantship (2)</td>
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<td>Scholarship (Tuition) **</td>
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<td>Bachelor's by dept. 21</td>
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<td>Master's by dept. 3</td>
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*Late applications will be considered if funds are available.
**Several (not limited to students in the Department of Mathematics).
***Partial or full waiver.

DEAN, SCHOOL OF NATURAL SCIENCES AND MATHEMATICS
SLIPPERY ROCK STATE COLLEGE

Duties: Responsible for providing leadership in developing and strengthening programs in the disciplines of biology, chemistry, geology, mathematics, and physics; assist in the development of academic policy and criteria; provide direction and supervision in matters of budget, personnel, and research.

Qualifications: Significant experience in college teaching; earned doctorate in one of the school’s disciplines; demonstrated leadership and administrative ability.

Salary: $25,976 – $33,017. Starting date: July 1, 1975.

Applications containing resumes, undergraduate and graduate transcripts, letters of recommendation and other supporting documents should be submitted no later than January 15, 1975 to:

Louis Razzano, Chairman, Search Committee
Slippery Rock State College
Slippery Rock, Pennsylvania 16057

An equal opportunity/affirmative action employer.
### RHODE ISLAND

**Brown University, Providence 02912**

**DEPARTMENT OF MATHEMATICS**

<table>
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<th>Type</th>
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<td>2000-3000 9</td>
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**DIVISION OF APPLIED MATHEMATICS**

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<td>3400-6125 9</td>
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<td>400-2625 9 Research</td>
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**Rhode Island College, Providence 02908**

**DEPARTMENT OF MATHEMATICS**

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<td>Teaching Assistantship (3)</td>
<td>2500 9</td>
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<td>Bachelor's by inst. 965</td>
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**University of Rhode Island, Kingston 02881**

**DEPARTMENT OF MATHEMATICS**

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<td>Teaching Assistantship (14)</td>
<td>2800-3200 9</td>
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<td>Bachelor's by inst. 2063</td>
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**DEPARTMENT OF COMPUTER SCIENCE AND EXPERIMENTAL STATISTICS**

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<tr>
<td>Teaching Assistantship (10)</td>
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<td>5 to 70</td>
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<td>Research Assistantship (4)</td>
<td>3600-4000 9*</td>
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<td>up to 760 Research</td>
<td>Master's by dept. 9</td>
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*Additional full-time summer compensation beginning at $1,800.

### SOUTH CAROLINA

**Clemson University, Clemson 29631**

**DEPARTMENT OF MATHEMATICAL SCIENCES**

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<td>90/sem. 20 Teaching, preparation, student help</td>
<td>Bachelor's by inst. 1352</td>
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**Medical University of South Carolina, Charleston 29401**

**DEPARTMENT OF BIOMETRY**

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<td></td>
<td>650</td>
<td>Master's by dept. 3</td>
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</table>
The Mathematics and Computer Science Department of
THE UNIVERSITY OF SOUTH CAROLINA
is Now Accepting Applications for
Teaching Assistantships for the 1975 – 1976 Academic Year
Stipends Range from $3200 to $4400
for
Six Hours Classroom Teaching or Equivalent

The programs offered lead to the Master of Arts in Teaching Mathematics, Master of Mathematics, Master of Arts, Master of Science and Doctor of Philosophy degrees. The student’s program of study is arranged after individual consultation: the master’s program, in particular, is adaptable to a variety of objectives. Doctoral research direction is available in algebra, analysis, applied mathematics, probability and statistics, topology, number theory, graph theory and combinatorics. Careful attention will be given to initial advisement and to starting each student in a program commensurate with his training and competence. Summer teaching is usually available.

Completed applications should be received by the Director by March 1. All inquiries are welcome and should be sent to:

Director of Graduate Studies
Department of Mathematics and Computer Science
UNIVERSITY OF SOUTH CAROLINA
Columbia, South Carolina 29208
<table>
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<th>TYPE of financial assistance</th>
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<td>(with number anticipated 1976-1977)</td>
<td>amount in dollars</td>
<td>9 or 12 months</td>
<td>if not included in stipend (dollars)</td>
<td>hours per week</td>
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<tr>
<td><strong>East Tennessee State University, Johnson City 37601</strong></td>
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<tr>
<td>DEPARTMENT OF MATHEMATICS</td>
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<tr>
<td>Lester C. Hartsell, Chairman</td>
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<tr>
<td>Research Assistantship (4)</td>
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<td>Master's by dept. 6</td>
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<td>*In-state, $14.00 per quarter not to exceed $142 per quarter. Out-of-state, in addition to the above, $24.00 per quarter hour not to exceed $284 per quarter.</td>
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<tr>
<td><strong>Memphis State University, Memphis 38123</strong></td>
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<tr>
<td>DEPARTMENT OF MATHEMATICAL SCIENCES</td>
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<tr>
<td>Stanley P. Franklin, Chairman</td>
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<tr>
<td>Teaching Assistantship (32)</td>
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<td>Master's by dept. 25</td>
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<tr>
<td><strong>Middle Tennessee State University, Murfreesboro 37130</strong></td>
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<td>DEPARTMENT OF MATHEMATICS</td>
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<tr>
<td>Harold S. Spraker, Chairman</td>
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<tr>
<td>Teaching Assistantship (8)</td>
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<td>15</td>
<td>Teaching, tutoring</td>
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<td>Master's by dept. 4</td>
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<tr>
<td><strong>Tennessee Technological University, Cookeville 38501</strong></td>
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<tr>
<td>Ralph C. Boles, Chairman</td>
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<td>Teaching Assistantship (8)</td>
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<td>Master's by dept. 2</td>
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<tr>
<td><strong>University of Tennessee, Knoxville 37916</strong></td>
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<td>Robert T. Gregory, Head</td>
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*Graduate students who hold title of student assistants.

**Applications due:**
- 3/30/75
- 1/15/75
- 2/28/75
- 1/30/75
- 3/1/75
- 2/15/75

**Total:** 24

**Scholarship (15) 1500-3100**

413
TEXAS

Baylor University, Waco 76703

DEPARTMENT OF MATHEMATICS
H. L. Bolf, Chairman

Teaching Assistantship (5) 1800-2500 9
Research Assistantship (4) 1500 9

Applications due: 3/1/75
Bachelor's by inst. 1301
Bachelor's by dept. 35
Master's by dept. 2

East Texas State University, Commerce 75428

DEPARTMENT OF COMPUTER SCIENCE
Allon R. Goddard, Head

Teaching Assistantship (6) 2979–3537 9

Applications due: 8/1/75
Bachelor's by dept. 80
Master's by dept. 20

Midwestern University, Wichita Falls 76308

DEPARTMENT OF MATHEMATICAL SCIENCES
Louie C. Huffman, Chairman

Teaching Assistantship (6) 2700 9

Applications due: 5/1/75
Bachelor's by inst. 400
Bachelor's by dept. 6
Master's by dept. 5

North Texas State University, Denton 76203

DEPARTMENT OF MATHEMATICS
Frank F. Connor, Chairman

Teaching Assistantship (21) 3300–3700 9

Applications due: 3/1/75
Bachelor's by inst. 2330
Bachelor's by dept. 25
Master's by dept. 6

Rice University, Houston 77001

DEPARTMENT OF MATHEMATICS
Salomon Bochner, Chairman

Fellowship (20) 2400–2800 9*

Applications due: 3/15/75
Bachelor's by inst. 477
Bachelor's by dept. 14
Master's by dept. 3

Scholarship (5)

*Appropriately higher for 12 months.

DEPARTMENT OF MATHEMATICAL SCIENCES
Paul E. Pfeiffer, Chairman

Fellowship (6) 4600 12
Research Assistantship (10) 4500–4700 12
Scholarship (12) 2300 9

Applications due: 3/15/75
Bachelor's by inst. 1377
Bachelor's by dept. 40
Master's by dept. 8

Government of Mexico Support (1)

Southern Methodist University, Dallas 75275

DEPARTMENT OF MATHEMATICS
David W. Starr, Chairman

Teaching Fellowship (7) 2200–3300* 9
Scholarship (Variable) 9

Applications due: 3/30/75
Bachelor's by inst. 1377
Bachelor's by dept. 40
Master's by dept. 8

*Stipend may be increased.

DEPARTMENT OF STATISTICS
D. B. Owen, Chairman

Teaching Assistantship (10) 2700 9
Scholarship (Tuition) (4)

Applications due: 4/1/75
Bachelor's by inst. 1377
Bachelor's by dept. 3
Master's by dept. 9
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Southwest Texas State University, San Marcos 78666

DEPARTMENT OF MATHEMATICS
Robert Northcutt, Chairman
Teaching Assistantship (6-8) 6633 9 220* 12
*9 month-2 semesters resident fee.

Stephen F. Austin State University, Nacogdoches 75961

DEPARTMENT OF MATHEMATICS
W.I. Layton, Head
Teaching Assistantship (17) 1500-3000 9 130** 16 or 6 Teaching
*As early as possible.
**Per semester for 12 hour load.

Texas A & I University at Kingsville 78363

DEPARTMENT OF MATHEMATICS
Virgil C. Kowalk, Chairman
Teaching Assistantship (4) 2970 9 * 20 Teaching
*Resident: $110.50 for nine hours; non-resident: increment is waived for those teaching six hours or more.

Texas A & M University, College Station 77843

DEPARTMENT OF MATHEMATICS
G. R. Blakley, Head
Teaching Assistantship (80) 3150-3850 9 50 20

DEPARTMENT OF STATISTICS
H.O. Hartley, Director
Fellowship (1) 350-425 12 175/sem. 20
Teaching Assistantship (12) 350-425 12 175/sem. 20
Research Assistantship (12) 350-425 12 175/sem. 20
*Indefinite.

Texas Christian University, Fort Worth 76109

DEPARTMENT OF MATHEMATICS
L.A. Colquitt, Chairman
Teaching Fellowship (10) 2400-3400 12 3 Teaching
Teaching Assistantship (5) 1800-2400 9 6 Teaching
Scholarship (2) 8 Research
Computer Training (3) 3200-3600 12 20 Programming

Texas Tech University, Lubbock 79409

DEPARTMENT OF MATHEMATICS
J. Dalton Tarwater, Chairman
Teaching Assistantship (55) 3000-4000 9 100/sem. 6 Teaching

TEXAS A & M UNIVERSITY

The Department of Mathematics of Texas A & M University offers programs leading to the M.S. and Ph.D. degrees. A student has great flexibility in choosing a program.

Faculty members are active in research in many fields of pure and applied mathematics from algebra to partial differential equations. The library and computing facilities are quite good.

Financial assistance is available.

For more information write:

Department of Mathematics
Graduate Student Committee
TEXAS A & M UNIVERSITY
College Station, Texas 77843

415
<table>
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<tr>
<th>UNIVERSITY</th>
<th>DEPARTMENT</th>
<th>CHAIRMAN</th>
<th>FELLOWSHIP</th>
<th>TEACHING ASSISTANTSHIP</th>
<th>RESEARCH ASSISTANTSHIP</th>
<th>SCHOLARSHIP</th>
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<td>University of Houston, Houston 77004</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>J. N. Younglove, Chairman</td>
<td>Teaching Fellowship (40) 3100-3600 9</td>
<td>In-State Teach 2 courses/sem.</td>
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<td>University of Texas at Arlington 76019</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>V. Lakshmikantham, Chairman</td>
<td>Teaching Assistantship (20) 2700-3600 9</td>
<td>148 15-20 Teaching</td>
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<td>University of Texas at Austin 78712</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>W. W. Bleescoe, Chairman</td>
<td>Fellowship (4) 3000-3200 9</td>
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<td>University of Texas at El Paso 79968</td>
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<td>James E. Nymann, Chairman</td>
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<td>Teaching Assistantship (10) 2500-3000 9</td>
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<td>Brigham Young University, Provo 84602</td>
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<td>Kenneth L. Hillam, Chairman</td>
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<td>University of Utah, Salt Lake City 84112</td>
<td>DEPARTMENT OF MATHEMATICS</td>
<td>C. E. Burgess, Chairman</td>
<td>Teaching Fellowship (36) 3900-4250 9</td>
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*For 12 semester hours: resident $50; non-resident $480; foreigner $200.
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<td>*Teaching fellowships are available to biostatistics graduate students through the Statistics Program.</td>
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<td>Scholarship 500-2000 9</td>
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<td>George Mason University, Fairfax 22030</td>
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<tr>
<td>DEPARTMENT OF MATHEMATICS John A. Oppelt, Chairman</td>
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<td>Teaching Assistantship (2) 3300-3750 9</td>
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<td>10</td>
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<td>*In-state: $360; out-of-state: $1350.</td>
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<tr>
<td>Madison College, Harrisonburg 22801</td>
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<tr>
<td>DEPARTMENT OF MATHEMATICS William M. Sanders, Head</td>
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<td>Teaching Assistantship (5) 3200 9</td>
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<td>Bachelor's by inst. 1001</td>
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<tr>
<td>Radford College, Radford 24141</td>
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<tr>
<td>DEPARTMENT OF MATHEMATICS AND STATISTICS Joseph C. Nichols, Chairman</td>
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<tr>
<td>Fellowship (1) 1200 9</td>
<td>500</td>
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<tr>
<td>Teaching Assistantship (1) 1000 9</td>
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<td>Dorm counselor</td>
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<td>House Fellowship (1) 2100 9</td>
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<td>Master's by dept. 3</td>
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417
University of Virginia, Charlottesville 22901

<table>
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<tr>
<th>DEPARTMENT OF MATHEMATICS</th>
<th>Fellowship (6)</th>
<th>3000-3900</th>
<th>9</th>
<th>1600</th>
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<td>3420-4140</td>
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<td>9</td>
<td>1600</td>
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Virginia Commonwealth University, Richmond 23284

| DEPARTMENT OF MATHEMATICAL SCIENCES | Teaching Assistantship (16) | 3000-3900 | 9 | 600 | 12 | Tutorial |

*Monthly screening beginning 2/1/75.

Virginia Commonwealth University, Medical College of Virginia, Richmond 23298

<table>
<thead>
<tr>
<th>DEPARTMENT OF BIOMETRY</th>
<th>Fellowship (1)</th>
<th>2400-2800</th>
<th>12</th>
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<td>Teaching Assistantship (6)</td>
<td>2400-2800</td>
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</table>

*Not yet determined.

Virginia Polytechnic Institute and State University, Blacksburg 24061

| DEPARTMENT OF MATHEMATICS | Teaching Assistantship (43) | 3510-3915 | 9 | 220* | 20 |

*For 10 qtr. hrs. or more.

<table>
<thead>
<tr>
<th>DEPARTMENT OF COMPUTER SCIENCE</th>
<th>Teaching Assistantship (16)</th>
<th>3510-3915</th>
<th>9</th>
<th>230/qtr.</th>
<th>20</th>
<th>Teaching</th>
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<tbody>
<tr>
<td></td>
<td>Research Assistantship (4)</td>
<td>4850-6220</td>
<td>12</td>
<td>230/qtr.</td>
<td>20</td>
<td>Research</td>
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</table>

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

The Mathematics Department of Virginia Tech offers individualized programs leading to the M.S. and Ph.D. degrees in most areas of pure and applied mathematics. A low student/teacher ratio, a young and active research faculty, and numerous seminars each quarter (many in conjunction with members of engineering and science departments) contribute to a stimulating environment for graduate study.

Approximately 15—20 new teaching assistantships are available for the coming academic year. Stipends range from $3510 to $3915.

For additional information and application forms write:

Chairman, Department of Mathematics
ATTN: Graduate Program Committee
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
Blacksburg, Virginia 24061
Washington

Central Washington State College, Ellensburg 98926

DEPARTMENT OF MATHEMATICS
Robert Y. Dean, Chairman
Teaching Assistantship (5) 2975 9 189/qtr. 20 Teaching

Eastern Washington State College, Cheney 99004

DEPARTMENT OF MATHEMATICS
Hugh D. Sullivan, Chairman
Teaching Assistantship (5) 920/qtr.-2880 9 * 15 Preparation, teaching

Research Assistantship (1-2) 2880 9 * 15


University of Washington, Seattle 98195

DEPARTMENT OF MATHEMATICS
Robert M. Blumenthal, Chairman
Fellowship (3) Varies 12
Teaching Assistantship (55) 3969-4527 9 624 20* Teaching
Research Assistantship (3) 3645-4158 9 624

*4 to 6 hours in class plus office hours and preparation time.

BIOMATHEMATICS GROUP
Richard A. Kronmal, Chairman
Fellowship (4) * 9
Teaching Assistantship (1) * yes 20 Grading
Research Assistantship (4) * yes 20 Miscellaneous

*Not known at this time.

DEPARTMENT OF COMPUTER SCIENCE
Jerre D. Noe, Chairman
Teaching Assistantship (4) 3669 9 624 6 Teaching
Research Assistantship (25) 3645 9 624 20 Research

Washington State University, Pullman 99163

DEPARTMENT OF PURE AND APPLIED MATHEMATICS
Calvin T. Long, Chairman
Teaching Assistantship (29) 3978-4145 9 624 20

Western Washington State College, Bellingham 98225

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Albert Froderberg, Chairman
Teaching Assistantship (11) 2880 9 185/qtr. Teaching one course

WEST VIRGINIA

Marshall University, Huntington 25701

DEPARTMENT OF MATHEMATICS
John W. Hogan, Chairman
Teaching Assistantship (3-7) 1800-2400 9 6 Teaching
### West Virginia University, Morgantown 26506

<table>
<thead>
<tr>
<th>Department of Mathematics</th>
<th>Application due: 3/1/75</th>
<th>Bachelor’s by inst.</th>
<th>694</th>
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<tr>
<td>I. Dec. Peters, Chairman</td>
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<td>Bachelor’s by dept.</td>
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<td>Teaching Assistantship (19)</td>
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**DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE**

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<td>Donald F. Butcher, Chairman</td>
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<td>Master’s by dept.</td>
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<td>Teaching Assistantship (7)</td>
<td>2394–2504 9</td>
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<tr>
<td>Research Assistantship (3)</td>
<td>3000–3600 12</td>
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**WEST VIRGINIA**

### Marquette University, Milwaukee 53233

**DEPARTMENT OF MATHEMATICS AND STATISTICS**

<table>
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<th>Application due: 2/1/75</th>
<th>Bachelor’s by inst.</th>
<th>1377</th>
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<tbody>
<tr>
<td>Willard E. Lawrence, Chairman</td>
<td></td>
<td>Bachelor’s by dept.</td>
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<tr>
<td>Fellowship *</td>
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<td>Master’s by dept.</td>
</tr>
<tr>
<td>Teaching Assistantship (10)</td>
<td>2700 9</td>
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</tr>
<tr>
<td>Research Assistantship (2)</td>
<td>2550 9</td>
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<td>Scholarship **</td>
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</table>

*Number not yet known, nominal stipend, tuition.

**University of Wisconsin-Eau Claire 54701**

**DEPARTMENT OF MATHEMATICS**

<table>
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<th>Application due: 3/1/75</th>
<th>Bachelor’s by inst.</th>
<th>1500</th>
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<tr>
<td>Lawrence Wahlstrom, Chairman</td>
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<td>Bachelor’s by dept.</td>
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<tr>
<td>Research Assistantship (1)</td>
<td>2500 9</td>
<td>Master’s by dept.</td>
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*Resident: $741 per year; non-resident: $2396 per year.

**University of Wisconsin-La Crosse 54601**

**DEPARTMENT OF MATHEMATICS**

<table>
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<tr>
<th>Application due: 4/15/75</th>
<th>Bachelor’s by inst.</th>
<th>4727</th>
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<tbody>
<tr>
<td>Roland Christensen, Chairman</td>
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<td>Bachelor’s by dept.</td>
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<tr>
<td>Graduate Assistantship (1)</td>
<td>2900 9</td>
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**University of Wisconsin – Madison 53706**

**DEPARTMENT OF MATHEMATICS**

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<th>Application due: 1/15/75</th>
<th>Bachelor’s by inst.</th>
<th>4727</th>
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</thead>
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<tr>
<td>Peter E. Ney, Chairman</td>
<td></td>
<td>Bachelor’s by dept.</td>
</tr>
<tr>
<td>Fellowship (10)</td>
<td>3700–4400* 9–12 796</td>
<td>Master’s by dept.</td>
</tr>
<tr>
<td>Teaching Assistantship (170)</td>
<td>4185–5500* 9</td>
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</tr>
<tr>
<td>Research Assistantship (4)</td>
<td>3300–3900 12</td>
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<td>MRC Regular (8)**</td>
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**MATHEMATICS RESEARCH CENTER**

<table>
<thead>
<tr>
<th>Application due: 1/15/75</th>
<th>Bachelor’s by inst.</th>
<th>4727</th>
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</thead>
<tbody>
<tr>
<td>R. C. Buck, Acting Director</td>
<td></td>
<td>Bachelor’s by dept.</td>
</tr>
<tr>
<td>MRC Fellowship (1)</td>
<td>3300–3900* 12</td>
<td>Master’s by dept.</td>
</tr>
<tr>
<td>R. E. Langer Fellowship (2)</td>
<td>4800–5400* 12</td>
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</tbody>
</table>

*All stipends increased by $750 for each dependent.

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**DEPARTMENT OF COMPUTER SCIENCES**

<table>
<thead>
<tr>
<th>Application due: 1/15/75</th>
<th>Bachelor’s by inst.</th>
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<tbody>
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<td>O. L. Mangasarian, Chairman</td>
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<td>Bachelor’s by dept.</td>
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<tr>
<td>Fellowship (3)</td>
<td>3717 12 796</td>
<td>Master’s by dept.</td>
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<tr>
<td>3/8 Teaching Assistantship (16)</td>
<td>3429 9 796 15</td>
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<td>1/2 Teaching Assistantship (25)</td>
<td>4563 9 796 20</td>
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<tr>
<td>Research Assistantship (15)</td>
<td>5346 9 796 20</td>
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<tr>
<td>MRC Fellow (1)</td>
<td>3300 12</td>
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**MATHEMATICS RESEARCH CENTER**

<table>
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<th>Application due: 1/15/75</th>
<th>Bachelor’s by inst.</th>
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</thead>
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<tr>
<td>R. C. Buck, Acting Director</td>
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<td>Bachelor’s by dept.</td>
</tr>
<tr>
<td>MRC Fellowship (10)</td>
<td>3300–3900* 12</td>
<td>Master’s by dept.</td>
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<tr>
<td>R. E. Langer Fellowship (2)</td>
<td>4800–5400* 12</td>
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*All stipends increased by $750 for each dependent.
<table>
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<tr>
<th>TYPE</th>
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<th>TUITION</th>
<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
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<tr>
<td>(with number anticipated 1976-1977)</td>
<td>amount in dollars</td>
<td>9 or 12 months</td>
<td>if not included in stipend (dollars)</td>
<td>hours per week</td>
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<tr>
<td>George C. Tiao, Chairman</td>
<td>3300-3900</td>
<td>12</td>
<td>20 or 12</td>
<td>Teaching</td>
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<td>Fellowship (2)</td>
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<td>*Taxed.</td>
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<tr>
<td>**Not taxéd.</td>
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<td>Gilbert Walter, Chairman</td>
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<td>9</td>
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<td>Research</td>
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<td>Fellowship (2)</td>
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<td>Research</td>
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<td>Joseph Martin, Head</td>
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<td>Research Assistantship (9)</td>
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<td>Applications due: 2/15/75</td>
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<td>CANADA</td>
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<td>Carleton University, Ottawa, Ontario</td>
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<tr>
<td>D.A. Dawson, Chairman</td>
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<td>2-8</td>
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<td>Research Assistantship (30)*</td>
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<tr>
<td>*Many students have combined Research and Teaching Assistantships.</td>
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<td>Dalhousie University, Halifax, Nova Scotia</td>
<td>Applications due: 7/1/75</td>
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<td>W.R.S. Sutherland, Chairman</td>
<td>2725-4425</td>
<td>12</td>
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<td>Marking, tutoring</td>
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<td>Scholarship (3)</td>
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<td>Lakehead University, Thunder Bay, Ontario</td>
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<td>J.H.M. Whitleft, Chairman</td>
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<td>McGill University, Montreal, Quebec</td>
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<tr>
<td>E. Rosenthall, Chairman</td>
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<td>Fellowship (5)</td>
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Bachelor's by inst. 2783
Bachelor's by dept. 52
Master's by dept. 19

Bachelor's by inst. 1965
Bachelor's by dept. 19
Master's by dept. 7

Bachelor's by inst. 1989
Bachelor's by dept. 55
Master's by dept. 7

Bachelor's by inst. 991
Bachelor's by dept. 70
Master's by dept. 4

Bachelor's by inst. 368
Bachelor's by dept. 10
Master's by dept. 4

Bachelor's by dept. 62
Master's by dept. 13

Bachelor's by inst. 12
Bachelor's by dept. 10
Master's by dept. 4

241
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<th>TYPE</th>
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<th>DEGREES AWARDED</th>
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<tr>
<td>of financial assistance</td>
<td>amount in dollars</td>
<td>8 or 12 months</td>
<td>if not included in stipend (dollars)</td>
<td>hours per week</td>
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<td>(with number anticipated 1976-1977)</td>
<td>of service</td>
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<td>McMaster University, Hamilton, Ontario</td>
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<td>K. A. Redish, Acting Chairman</td>
<td>Teaching Assistantship (17)</td>
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<td>Simon Fraser University, Burnaby, British Columbia</td>
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<td>DEPARTMENT OF MATHEMATICS</td>
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<td>Research Assistantship (10)</td>
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<td>150/sem.**</td>
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<td>Université Laval, Quebec, Quebec</td>
<td>Scholarship (6)</td>
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<tr>
<td>Université de Moncton, Moncton, New Brunswick</td>
<td>Teaching Fellowship (2)</td>
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<td>Teaching Assistantship (18)</td>
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<tr>
<td>University of Alberta, Edmonton, Alberta</td>
<td>Teaching Assistantship (17)</td>
<td>2650-4300</td>
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<td>Intercession Bursary</td>
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<td>University of British Columbia, Vancouver, British Columbia</td>
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<td>DEPARTMENT OF COMPUTER SCIENCE</td>
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<td>3360</td>
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<td>Research Assistantship (6)</td>
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*Extendable to 12 months with $1120 Research Assistantship.

**Fees reduce to $20 per semester in second year of graduate studies.

422
| University of Calgary, Calgary, Alberta | **DEPARTMENT OF MATHEMATICS, STATISTICS AND COMPUTING SCIENCE**  
Peter Lancaster, Head  
Teaching Assistantship (30) 3000-3800 8  
Research Assistantship (15) 2400 8  
| **Applications due:** 6/30/75  
<table>
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<th><strong>TYPE</strong></th>
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<th><strong>TUITION</strong></th>
<th><strong>SERVICE REQUIRED</strong></th>
<th><strong>DEGREES AWARDED</strong></th>
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<td>9 or 12 months</td>
<td>if not included in stipend (dollars)</td>
<td>hours per week</td>
<td>type of service</td>
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<td><strong>UNIVERSITY OF CALGARY, CALGARY, ALBERTA</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS, STATISTICS AND COMPUTING SCIENCE</strong></td>
<td><strong>Applications due:</strong> 6/30/75</td>
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<tr>
<td>Peter Lancaster, Head</td>
<td>3000-3800 8</td>
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<td><strong>Applications due:</strong> 6/30/75</td>
<td><strong>Bachelor's by inst.</strong> 1771</td>
<td><strong>Bachelor's by dept.</strong> 34</td>
<td><strong>Master's by dept.</strong> 7</td>
<td><strong>Ph. D. (1972-1974 incl.)</strong></td>
<td><strong>A&amp;NT 2, A&amp;FA 4, P&amp;S 1,</strong></td>
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<tr>
<td><strong>University of Guelph, Guelph, Ontario</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS AND STATISTICS</strong></td>
<td><strong>T.D. Newton, Chairman</strong></td>
<td><strong>Applications due:</strong> 6/30/75</td>
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<td>Teaching Assistantship (2-3)</td>
<td>2640 12</td>
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<td><strong>Applications due:</strong> 6/30/75</td>
<td><strong>Bachelor's by inst.</strong> 1154</td>
<td><strong>Bachelor's by dept.</strong> 25</td>
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<td><strong>University of Manitoba, Winnipeg, Manitoba</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS</strong></td>
<td><strong>N.S. Mendelsohn, Head</strong></td>
<td><strong>Applications due:</strong> 4/1/75</td>
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<td>Teaching Assistantship (5)</td>
<td>4000-4500 9</td>
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<td><strong>Applications due:</strong> 4/1/75</td>
<td><strong>Bachelor's by inst.</strong> 2935</td>
<td><strong>Bachelor's by dept.</strong> 100</td>
<td><strong>Master's by dept.</strong> 3</td>
<td><strong>Ph.D. (1972-1974 incl.)</strong></td>
<td><strong>A&amp;NT 5, Other 1. Total: 6</strong></td>
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<td><strong>DEPARTMENT OF STATISTICS</strong></td>
<td><strong>B.K. Kale, Head</strong></td>
<td><strong>Applications due:</strong> 3/31/75</td>
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<tr>
<td>Fellowship (1)</td>
<td>3300 12</td>
<td>425-450 6-8</td>
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<td><strong>Applications due:</strong> 3/31/75</td>
<td><strong>Bachelor's by inst.</strong> 900</td>
<td><strong>Bachelor's by dept.</strong> 11</td>
<td><strong>Master's by dept.</strong> 8</td>
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<td><strong>University of New Brunswick, Fredericton, New Brunswick</strong></td>
<td><strong>SCHOOL OF COMPUTER SCIENCE</strong></td>
<td><strong>W. Dana Wasson, Director</strong></td>
<td><strong>Applications due:</strong> 4/1/75</td>
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<td>Teaching Assistantship (15)</td>
<td>200-300 8</td>
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<td>100-375 8-12</td>
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<td><strong>Applications due:</strong> 4/1/75</td>
<td><strong>Bachelor's by inst.</strong> 1600</td>
<td><strong>Bachelor's by dept.</strong> 25</td>
<td><strong>Master's by dept.</strong> 4</td>
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<td><strong>University of Ottawa, Ottawa, Ontario</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS</strong></td>
<td><strong>R. Vaillancourt, Chairman</strong></td>
<td><strong>Applications due:</strong> 3/15/75</td>
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<td>Teaching Fellowship (3)</td>
<td>3000-4500 12</td>
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<td>2400-3000 12</td>
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<td>3000-4000 12</td>
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<td><strong>Applications due:</strong> 3/15/75</td>
<td><strong>Bachelor's by inst.</strong> 2000</td>
<td><strong>Bachelor's by dept.</strong> 38</td>
<td><strong>Master's by dept.</strong> 3</td>
<td><strong>Ph.D. (1972-1974 incl.)</strong></td>
<td><strong>A&amp;NT 7, G&amp;T 9, L 4,</strong></td>
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<tr>
<td><strong>University of Saskatchewan, Saskatoon, Saskatchewan</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS</strong></td>
<td><strong>G.H.M. Thomas, Head</strong></td>
<td><strong>Applications due:</strong> 3/15/75</td>
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<td>3500 12</td>
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<td><em>One class of 3 hours per week or equivalent services.</em></td>
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<tr>
<td><strong>University of Toronto, Toronto, Ontario</strong></td>
<td><strong>DEPARTMENT OF MATHEMATICS</strong></td>
<td><strong>G.F.D. Duff, Chairman</strong></td>
<td><strong>Applications due:</strong> 3/15/75</td>
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<td>Teaching and Research Assistantship (15)</td>
<td>5250-5500 12</td>
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<td><strong>Bachelor's by inst.</strong> 6600</td>
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<td><strong>Master's by dept.</strong> 21</td>
<td><strong>Ph.D. (1972-1974 incl.)</strong></td>
<td><strong>CS 17. Total: 17</strong></td>
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<td><strong>DEPARTMENT OF COMPUTER SCIENCE</strong></td>
<td><strong>Thomas E. Hull, Chairman</strong></td>
<td><strong>Applications due:</strong> 12/19/74</td>
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<td>Fellowship (36)</td>
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<td>Teaching Assistantship (52)*</td>
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<td>610</td>
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<td>Research Assistantship (51)</td>
<td>1560-4500 12</td>
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<td><em>A teaching assistantship may be held together with a research assistantship or with certain fellowships.</em></td>
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</table>
## University of Waterloo, Waterloo, Ontario

**FACULTY OF MATHEMATICS**

- **Teaching Assistantship (220)**: 600–3000, 12 hours, 600 per week. 5–10 grading or tutoring. 600, Bachelor's by inst. 2447, Bachelor's by dept. 208, Master's by dept. 73.
- **Research Assistantship (130)**: 4500, 12 hours, 600 per week. 206 research. A&NT 6, G&T 2, P&S 13, CS 23, AM 16, Other 12. Total: 72.
- **Scholarship (20)**: 500–5000*, 8 or 12 hours, 600 per week. 600, Bachelor's by inst. 2577, Bachelor's by dept. 66, Master's by dept. 7.

*Federal N.R.C.

**University of Western Ontario, London, Ontario**

**DEPARTMENT OF MATHEMATICS**

- **Research Assistantship (3)**: 4500, 8–12 hours, 585 per week. 206 research. A&NT 6, G&T 2, P&S 13, CS 23, AM 16, Other 12. Total: 72.
- **Scholarship (6)**: 1600–5000, 8–12 hours, 585 per week. 585, Bachelor's by inst. 1750, Bachelor's by dept. 30, Master's by dept. 5.

**University of Windsor, Windsor, Ontario**

**DEPARTMENT OF MATHEMATICS**

- **University Scholarship (5)**: 1500–4000, 12 hours, 317.50/sem. 317.50/sem.

**York University, Toronto, Ontario**

**DEPARTMENT OF MATHEMATICS**

- **Teaching Assistantship (20)**: 1800–3000, 9–12 hours, 615, 10 marking, tutorials. Bachelor's by inst. 4202, Bachelor's by dept. 34, Master's by dept. 15.
- **Research Assistantship (2)**: 1000–3000, 9–12 hours, 615, 10 research aid.

**Scholarship (3)**: 1000

### Graduate Studies in Computer Science at the University of Waterloo


Combined Teaching and Research Assistantships in the range $3500 - $5000 are available for entering students.

Students of good academic standing in technical areas but little formal training are encouraged to apply.

Inquiries should be sent to:
The Graduate Officer
Department of Computer Science
University of Waterloo
Waterloo, Ontario N2L 3G1
II. STIPENDS FOR STUDY AND TRAVEL

Graduate Support

Ames Laboratory. Graduate assistantships. Areas of interest include computer languages, programming systems for command and control, adaptive and self-organizing logic systems with application to control processes, numerical analysis, differential and integral equations, special function theory, and applied mathematics. Director inquiries to Dr. R. S. Hansen, Director, Ames Laboratory, Iowa State University, Box 1129, ISU Station, Ames, Iowa 50010.

American Association for the Advancement of Science. Summer Employment. Supports up to ten outstanding advanced graduate students in the social and natural sciences as intern reporters, researchers, or production assistants in a variety of media for the summer of 1975. In a few exceptional cases junior, senior or post-doctoral candidates will be considered and candidates who can present convincing reasons for extending their internships through the fall may be permitted to do so. The students will work for specific media organizations in an existing intern program operated for undergraduates and recent graduates who are planning journalism careers. Travel expenses and salaries will be paid by the Association. Interested students may have a faculty member submit a letter of nomination to the AAAS. In addition, the application should send a curriculum vita, three references and a letter stating media preference and describing: (a) reasons for wanting to participate, (b) professional interests in the sciences, (c) beliefs about improving journalism by infusing it with the natural and/or social sciences and (d) how a scientist might benefit from exposure to the mass media. The application deadline is February 1, 1975. Applications and recommendations should be sent to Wendy Weisman-Dermer, Mass Media Intern Program, American Association for the Advancement of Science, 1776 Massachusetts Avenue N. W., Washington, D. C. 20036.

Battelle Memorial Institute, Pacific Northwest Laboratory. Mathematics efforts in support of a number of on-going Atomic Energy Commission programs include neutron transport and radiative transfer, plasma dynamics, electromagnetic theory, applied statistics, diffusion processes, two-phase fluid flow, stochastic processes, and economic modelling. A limited number of summer appointments are available to faculty members, graduate students, and undergraduates through the NORCUS Fellowship Program. Inquiries should be directed to Norcus Office, Joint Center for Graduate Study, 100 Sprout Road, Richland, Washington 99352.

Center for Naval Analyses. 1975 Summer Employment. CNA, operated under contract with the University of Rochester, is engaged in a broad spectrum of operations research and systems analysis studies for the U.S. Navy and other government agencies. Opportunities are available for graduate students in operations research, economics, engineering, mathematics, physics, and statistics. Assignments include analysis related to force level planning, manpower, logistics, and operational effectiveness. U.S. citizenship required. Information may be obtained from Ms. Esther M. Fisher, Manager, Professional Staffing, Center for Naval Analyses, 1401 Wilson Boulevard, Arlington, Virginia 22209.

Danforth Foundation. Danforth Fellowships. Purpose is to encourage and support persons who intend to study for a Ph. D. in any field of study in the arts and sciences which contributes to a liberal education in preparation for teaching in colleges and universities. Open to seniors or recent graduates of accredited colleges and universities in the United States who are less than thirty-five years of age and who have not begun any graduate study. Candidates for appointment are restricted to those persons nominated by Liaison Officers (faculty members appointed by college and university presidents) in accredited U.S. undergraduate colleges. Information is available from the Liaison Officer, or by writing to the Director of the Danforth Fellowship Program, Danforth Foundation, 222 South Central Avenue, St. Louis, Missouri 63105.

Danforth Foundation. Graduate Fellowships for Women. Objective is to find and develop college and secondary school teachers among that group of women whose preparation for teaching has been postponed or interrupted. Open to women who hold bachelor's degrees from accredited U.S. institutions; have had a break of at least three years' duration when they were neither studying nor teaching; and at the time of application not employed as full-time teachers or enrolled as full-time graduate students. Thirty one-year appointments available each year. Renewable. Stipends depend on individual needs. Application materials and further information available from the Director, Danforth Graduate Fellowships for Women, Danforth Foundation, 222 South Central Avenue, St. Louis, Missouri 63105.
General Electric Foundation. Provides research and study grants to selected graduate institutions on a programmed, rotational basis, to be used by the departments as they deem appropriate, which includes fellowships and teaching assistantships in some cases. The Foundation does not grant fellowships or other awards to individuals. For specific information regarding institutions to whom grants have been made, write to Richard E. Kramer, Jr., 1285 Boston Avenue, Bridgeport, Connecticut 06602.

Graduate Women in Science. A grant-in-aid of $750 is available to any woman who holds a degree from a recognized institution of higher learning and has demonstrated outstanding ability and promise in research in one of the mathematical, physical, or biological sciences. The period of the grant shall not exceed one calendar year. The stipend may be applied either directly to the research project or to course work, provided the latter is relevant to the research program. Appointments will be made irrespective of race, nationality, creed, or marital status. Special consideration will be shown to applicants thirty-five years of age or older, but younger women should feel free to apply. Application forms and further information may be obtained from Dr. A. Katherine Miller, Merck Institute for Therapeutic Research, Rahway, New Jersey 07065. Application form and credentials should be submitted before February 1, 1975. Announcement of awards will be made by April 1, 1975.

Daniel and Florence Guggenheim Foundation. Fellowships for U.S. and Canadian residents interested in jet propulsion, energy conversion and fluid mechanics. For information write to California Institute of Technology, Columbia University, and Princeton University.

Hughes Aircraft Company. Doctoral, Engineer, and Master's Fellowship Programs. In support of academic training leading to these degrees and correlated experience developed through professional work assignments. Over 100 new awards are offered each year in various fields of engineering, mathematics, and physics. The value of the awards, including salary associated with work assignments, ranges from $8,500 to $13,000 annually. U.S. citizenship is required. For further information, write to Scientific Education Office, Hughes Aircraft Company, Building 100, 445, P. O. Box 90515, Los Angeles, California 90009.

Johns Hopkins University. School scholarships are available to students seeking the Sc. M. or Ph. D. in biostatistics. Applicants should have one year of biological, physical, or social science in addition to preparation in mathematics. Address inquiries to Chairman, Department of Biostatistics, School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, Maryland 21205.

Kappa Kappa Gamma Fraternity. Fellowships. Awards of $500 or more for graduate study. These are open to women who are citizens of the United States or Canada and who have received a Bachelor's degree or will obtain it prior to July 1 of the year in which the awards are made. This degree must be from an institution where a chapter of Kappa Kappa Gamma is located or graduate work must be taken on a campus where a chapter is located. Awards are made entirely on a competitive basis without regard to fraternity affiliation. A candidate must be a person with high scholastic standing who is outstanding in some form of activity and who has made a real contribution to the life of her alma mater. She should have a well outlined plan for graduate activity, have a definite goal in prospect, and know what use she expects to make of her work in the future. Applications must be completed before February 15. Forms are available from Dr. Miriam Locke, Chairman of Fellowships, Kappa Kappa Gamma Fraternity, Box 1484, University, Alabama 35486.

Laboratory Graduate Participation. Opportunity for graduate students working toward master’s and doctoral degrees in scientific fields, including mathematics, to use AEC installations at Oak Ridge National Laboratory, Puerto Rico Nuclear Center, Savannah River Laboratory, and Savannah River Ecology Laboratory for thesis research. An annual stipend payment of $3,600 is applicable for all levels. U.S. citizenship is required. About twenty-five appointments are awarded annually. Inquiries may be addressed to University Programs Office, Oak Ridge Associated Universities, P. O. Box 117, Oak Ridge, Tennessee 37830.

University of Massachusetts. Sabbatical Lectureships. Available in the Department of Mathematics and Statistics, these lectureships are open to faculty members of four-year colleges, or universities without a Ph.D. program in mathematics, who wish to spend their sabbatical leaves at the University of Massachusetts. Lecturers must have a Master's degree in mathematics, but not a Ph.D.; will be required to teach one course per semester; and will be expected to enroll in two courses and one seminar. Stipends up to $6,000 are available; tuition will be waived. For further information, write to Professor Robert J. Blattner, Chairman, Department of Mathematics and Statistics, University of Massachusetts, Amherst, Massachusetts 01002.

Mathematics Research Center. Predoctoral fellowships for U.S. citizens for graduate study in any of the Departments of Mathematics, Computer Sciences, or Statistics at the University of Wisconsin. For information, write to Professor R. Creighton Buck, Acting Director, Mathematics Research Center, University of Wisconsin, Madison, Wisconsin 53706.
National Direct Student Loan Program. Fields unrestricted. Student must be carrying at least one half the normal full-time academic workload as determined by the U.S. institution where he is or will be enrolled. Funds are administered by participating U.S. institutions, and applications should be made through the Director of Admissions or officer in charge of student financial aid. Other inquiries may be addressed to Division of Student Support and Social Programs, Bureau of Post-secondary Education, U.S. Office of Education, Washington, D.C. 20202.

National Science Foundation. Graduate Fellowships. Available to citizens or nationals of the U.S. for full-time study leading to the master's or doctor's degree in science (including mathematics). Awards made only to students who have completed not more than one year of graduate studies. Stipends of $3,600 for a twelve-month tenure, or $300 per month, regardless of years of study; no dependency allowances. Deadline December 2, 1974. Further information and application materials may be obtained from the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418.


RCA Fellowships. Grants are for graduate study in electrical engineering, electronics, engineering physics, journalism and physics. (Journalism fellowship limited to qualified news person associated with NBC affiliated stations.) Candidates are selected by appropriate officials in designated continental U.S. universities. Although appointments are for one year, RCA Fellows are eligible for reappointment. Grants include payment of full tuition costs, stipend, and an unrestricted grant to the university department in which the Fellow is studying. For further information, write to the Educational Aid Committee, RCA David Sarnoff Research Center, Princeton, New Jersey 08540.

Smithsonian Institution. Predoctoral Fellowships. Appointments to students recommended by universities where they have substantially completed formal course requirements for the doctorate, or its equivalent, to conduct research upon completion of which the award of the degree is anticipated. Offered annually in the history of mathematics, usually for a period of twelve months, but never for less than six months. $5,000 stipend, plus research expense allowance. The proposed project must be approved in advance by appointee's advisor and must be related to research and interests of the Institution. Deadline for application is January 15th yearly for the following academic year. Further information and application forms may be obtained from the Office of Academic Studies, Smithsonian Institution, Washington, D.C. 20560.

Zonta International. Amelia Earhart Fellowships. For women holding a bachelor's degree in science and interested in graduate work in aero-space science. Recipients will be granted $3,000, and past recipients may apply for renewed grants. Applications must be filed by January 1, 1975. Write to Zonta International, 59 East Van Buren Street, Chicago, Illinois 60605.

Postdoctoral Support

Air Force Office of Scientific Research. Research Contracts and Grants. Mathematicians and scientists in the information or mathematical sciences are encouraged to submit proposals through their organizations, for research. It is helpful if proposals to be considered under a given fiscal year, which begins on July 1, are submitted prior to that date. Recipients of support are not required to be U.S. citizens. Research areas of interest include physical mathematics, probability and statistics, numerical analysis, mathematical aspects of system science, control theory, and information science. Research proposals should be forwarded to the Director of Mathematical Information Sciences, Air Force Office of Scientific Research, 1400 Wilson Boulevard, Arlington, Virginia 22209.

Air Force Systems Command. Postdoctoral and Senior Postdoctoral Research Associateships. Awards made in several fields, including mathematics. Tenable at several laboratories in the United States. Annual stipend for these appointments is $15,000 for the recent recipient of the doctorate with an adjustment made for the senior candidate. More details regarding this program may be obtained from the Associateship Office, JH 006, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Deadline for submission of applications is January 15, 1975. Inquiries cannot be processed after January 10, 1975.

American Mathematical Society Research Fellowship. Postdoctoral Fellowships. Intended to support research fellows for one year and awarded strictly on the basis of mathematical merit. Awards for 1975–1976 are to be approximately $10,000 each; application deadline for 1975–1976 awards is March 15, 1975. The fellowships are awarded to individuals who have recently received the Ph.D. For further information and application forms write to Dr. Gordon L. Walker, Executive Director, American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940.
American Philosophical Society. Postdoctoral research grants of small amounts according to need for candidates with Ph.D. or equivalent to aid specific research projects. Tenable abroad and in U.S. An application must reach the Society's office at least eight weeks in advance of the meeting at which it is to be considered. The Committee on Research meets on the first Friday of February, April, June, October, and December. For information write to the American Philosophical Society, 104 South Fifth Street, Philadelphia, Pennsylvania 19106.

Argonne National Laboratory. Predoctoral, postdoctoral, and visiting scientist appointments in mathematics and computer science with an emphasis on applied analysis and numerical mathematics. Summer appointments available at undergraduate through visiting scientist levels. Contact: James C. T. Pool, Associate Director, Applied Mathematics Division, Argonne National Laboratory, Argonne, Illinois 60439.

Army Research Office. Research grants and contracts for basic research in mathematics, information and computer sciences, electronics, engineering, and physical, environmental and life sciences. Write to Chief Scientist, U.S. Army Research Office, Box CM, Duke Station, Durham, North Carolina 27706.


Australian Institute of Nuclear Science and Engineering. Research fellowships. Fellowships are intended for scientists and engineers who have qualifications equivalent to the Ph.D. and are at a relatively early stage of an independent research career. Stipends are in the range of $8,000 to $11,000 per year (Australian currency), and the institute may contribute to travel costs to and from Australia. A research project within the field of nuclear science and engineering of interest to the institute must be proposed in the nomination after agreement between the candidate and the nominating organization. Further information can be obtained from Executive Office, Australian Institute of Nuclear Science and Engineering, Private Mail Bag, Post Office, Sutherland N.S.W. 2232, Australia. Candidates must be nominated by an Australian university or the Australian Atomic Energy Commission. Closings dates are February 28 and August 31 each year, and all nominations received after one closing date will be considered together after the next closing date.

Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland. Postdoctoral and Senior Postdoctoral Research Associateships. Awards made in several fields, including mathematics. Annual stipend for these appointments is $13,000 for the recent recipient of the doctorate with an adjustment made for the senior candidate. More details regarding this program and application materials may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Deadline for submission of applications is January 15, 1975. Inquiries cannot be processed after January 10, 1975.

Brookhaven National Laboratory. The Applied Mathematics Department of Brookhaven National Laboratory, operated by Associated Universities, Inc., under contract with the U.S. Atomic Energy Commission, offers a limited number of Research Associate appointments to young Ph.D.'s. Large scale digital computing facilities, including a CYBER 70/76 and two CDC 6600 computing systems, are available for use by the appointees. Some areas of interest to the Department are probability and statistics, linear operator theory, differential and integral equations, numerical analysis and approximation theory, mathematical programming, and computer science. Inquiries should be directed to: Dr. Y. Shimamoto, Chairman, Applied Mathematics Department, Brookhaven National Laboratory, Upton, L. I., New York 11973.

Cottrell Research Grants. Awarded to help young faculty members in the early years of their professional careers at degree-granting institutions conduct basic research of importance in the physical sciences and engineering. Support is normally given for items of direct expense to help initiate research. Although grants are usually made on a one-year basis, consideration may be given in certain circumstances to a longer period or to re-application for additional support. Further information may be obtained from Research Corporation, Cottrell Research Grant Program, 405 Lexington Avenue, New York, New York 10017.

Courant Institute. Instructorships in Mathematics. Open to young mathematicians with doctor's degrees who show strong promise in research. The teaching duty will consist of one course each term, of which one term will be related to the field of interest of the instructor. Appointments are for two years. The academic salary for nine months will be $12,500. In addition, the Courant Institute may be able to offer support for research in residence during two summer months. Inquiries or requests for application forms should be addressed to the Committee on Instructorships, Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012. Applications should be filed no later than January 1, 1975.
*Courant Institute. Postdoctoral Visiting Memberships. The Courant Institute of Mathematical Sciences of New York University offers postdoctoral Visiting Memberships to mathematicians, scientists and engineers who are interested in its program of training and research in a broad range of pure and applied mathematics. Applications for the academic year 1974–1975 must be submitted before January 1, 1975. Inquiries should be addressed to the Visiting Membership Committee, Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012.

Courant Institute. The Courant Institute of Mathematical Sciences, with the support of the U. S. Atomic Energy Commission and other federal agencies, offers research assistantships to graduate students and postdoctoral research appointments. Among the chief areas of current research are probability, analysis, mathematical physics, applied mathematics, numerical analysis, and computer science. These include differential and integral equations, functional analysis, fluid dynamics, electromagnetic theory, wave propagation, fluid and continuum mechanics, plasma physics, kinetic theory, logic, computer design, the theory of automata, and computational complexity. Further information about these opportunities can be obtained from Professor Jerome Berkowitz, Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012, Department of State, Agency for International Development. Research grants for research projects and analytical studies in systems and operations dealing with socio-economic development problems. Research groups are encouraged to investigate problems of their own devising within the above areas. For further information, write to Mr. James R. Hoath, Policy Determination and Analysis, Bureau for Program and Policy Coordination, Agency for International Development, Department of State, Washington, D. C. 20523.

L. E. Dickson Instructorships in Mathematics. Intended for men or women completing the doctorate in Mathematics during 1975-1976. Appointment is for two years with an annual salary of $13,000; instruction averaging four hours a week; supplementary summer salary can usually be arranged. Further information may be obtained from the University of Chicago, Department of Mathematics, Chicago, Illinois 60637.

G. C. Evans Instructorships at Rice University. For promising young mathematicians with the doctorate, primarily for new Ph.D.'s. Appointments are for two years at a salary of at least $12,000 for the regular academic year. Rice is an equal opportunity employer. Inquiries and applications should be addressed to Professor Salomon Bochner, Chairman, Department of Mathematics, Rice University, Houston, Texas 77001.

Feldman Research Laboratory, Dover, New Jersey. Postdoctoral and Senior Postdoctoral Research Associateships. Awards made in several fields, including mathematics. Annual stipend for these appointments is $15,000 for the recent recipient of the doctorate with an adjustment made for the senior candidate. More details regarding this program and application materials may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D. C. 20418. Deadline for submission of applications is January 15, 1975. Inquiries cannot be processed after January 10, 1975.

J. Willard Gibbs Instructorships. Offered by Yale University to young men and women with recent doctorate who show definite promise in research in pure mathematics. Applications from members of minority groups are welcome. Appointments are for two years at a salary of between $12,000 and $12,600 for the academic year. Each recipient of a Gibbs Instructorship will be given an allowance of up to $250 toward the actual expense of moving household possessions to the New Haven area. The teaching load is kept light so as to allow ample time for research. If desired, part of the teaching duties may consist of a one-semester course at the graduate level in the general area of the instructor's research. Inquiries and applications should be addressed to the Chairman, Department of Mathematics, Yale University, Box 2155 Yale Station, New Haven, Connecticut 06520. Preference will be given to applications received before February 1975.

John Simon Guggenheim Memorial Foundation Fellowships. Applicant should be between 30 and 45 years of age (exceptions are made) and engaged in scientific research. No academic degree is required, but the fellowships are on the advanced postdoctoral level. U. S. citizenship or permanent residence is required. Fellowships are also offered to citizens or permanent residents of all countries and territories of the Western Hemisphere and of the Philippines. Nominations are made by the Committee of Selection. Approximately 340 awards are made, averaging $12,100 in 1974. For more information write to President, John Simon Guggenheim Memorial Foundation, 90 Park Avenue, New York, New York 10016.

Harvard University. Postdoctoral Fellowship. The Department of Mathematics of Harvard University offers a postdoctoral fellowship with a stipend of $8,000. Candidates should send a brief vita, a statement of research plans, and two letters of recommendation to Professor Raoul H. Bott, Department of Mathematics, Harvard University, 1 Oxford Street, Cambridge, Massachusetts 02138.

*No current information.
*The Hebrew University of Jerusalem. Postdoctoral Fellowships. Fellowships in the fields of mathematics and computer science. Provides tax-free salary ranging from 14,000 to 16,000 Israeli pounds, and usually allows for round-trip passage. The applicant is required to submit his application (in letter form) together with a detailed curriculum vitae and a list of publications, and two letters of recommendation from persons well acquainted with the applicant's academic and research records. Fellowships are intended for persons who received their Ph.D.'s in recent years, and for those who will complete all requirements for the Ph.D. before the autumn of 1974. Application letters and letters of recommendation should be sent to the Dean, Faculty of Science, The Hebrew University of Jerusalem, Jerusalem, Israel. Deadline is December 1, 1974.

E. R. Hedrick Assistant Professorships in Mathematics. Department of Mathematics, University of California, Los Angeles, will make two appointments for the year 1975–1976. These awards will be made to mathematicians with recent Ph.D.'s who show strong promise in research. The appointment will be for two years at an annual salary of $15,400, plus a summer research supplement of $2,500. The teaching load will be three hours per week for two quarters and six hours per week for one quarter. One course may be an advanced course in the candidates research area. Requests for application forms should be sent to the Chairman, Department of Mathematics, University of California, 405 Hilgard Avenue, Los Angeles, California 90024. The deadline for applications is January 15, 1975. UCLA is an Equal Opportunity Employer.

T. H. Hildebrandt Research Assistant Professorships. Designed to provide young mathematicians with favorable circumstances for the development of their research talents. Preference given to those having their Ph.D. less than two years. One appointment is expected to be available for the coming academic year. Teaching load averages one and one-half courses per semester; part of teaching load consists of an advanced course. Stipend at least $12,000 for academic year 1975–1976 with good possibility of additional income during the summer. Two-year appointments and consideration for regular faculty appointments. Applicants must have completed all requirements for Ph.D. degree when term of appointment begins. Applicants should submit completed application form and at least three letters of recommendation. Letters should contain comments on applicant's mathematical promise, teaching ability, and personality. First preference will be given to applications completed, and supported by three or more letters, prior to January 15. Appointments will be announced early in February. Applications should be made to Associate Chairman, Department of Mathematics, The University of Michigan, Ann Arbor, Michigan 48104.

Václav Hlavaty Research Assistant Professorships. Offered by the Department of Mathematics at Indiana University to young mathematicians with doctorates who show definite promise in research. The appointment is for three years with an academic-year salary of at least $12,500. The teaching duties during the first academic year will involve three hours per week and during the next two academic years will involve six hours per week. The salary may be supplemented by either teaching or research contracts during the summer months. There will also be an amount of $400 available for professional expenses, such as travel to meetings, supplies, publication costs, etc. Inquiries or requests for application forms should be addressed to Professor Maynard Thompson, Chairman, Department of Mathematics, Swain Hall East, Indiana University, Bloomington, Indiana 47401. Preference will be given to applications received before January 31, 1975. Affirmative action employer.

*IBM Thomas J. Watson Research Center. Postdoctoral fellowships. These fellowships provide scientists of outstanding ability, at the beginning of their careers, an opportunity to pursue and broaden their scholarship while in residence at the Research Center. A candidate will be expected to have not more than five years professional experience between receipt of a doctorate and commencement of the fellowship. The duration of each fellowship will be eleven months. Generally the stipend will be in the range of $18,000–$20,000, depending on qualifications. Complete applications should be received by January 15, 1975. At most two fellowships will be awarded. Notification will be made by March 15, 1975. Write to Director, Mathematical Sciences Department, IBM Thomas J. Watson Research Center, P.O. Box 218, Yorktown Heights, New York 10598.

Institute for Advanced Study. The School of Mathematics will grant a limited number of memberships, some with financial support, for research in mathematics at the Institute during the academic year 1975–1976. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree. Application blanks may be obtained from the secretary of the School of Mathematics, Institute for Advanced Study, Princeton, New Jersey 08540 and should be returned (whether or not funds are expected from some other source) by January 15, 1975.

Langley Research Center. Limited number of visiting appointments are available for both junior- and senior-level researchers at the Institute for Computer Applications in Science and Engineering (ICASE) which is operated by Universities Space Research Association. ICASE serves as a center for interaction between Langley staff and the academic community in the areas of applied and numerical mathematics, applied computer science, and development of mathematical models in a variety of application areas. Applications for partial support while on sabbatical leave are encouraged, as are applications from recent Ph.D.'s for one-year appointments with possible renewal. Inquiries should be addressed

*No current information.
Andrew Mellon Postdoctoral Fellowships. Intended to support the research and foster the professional opportunities in computer science, numerical science, and applied mathematics. Inquiries should be directed to Dr. James A. Baker, Mathematics and Computing Group, Lawrence Berkeley Laboratory, Building 50B, Room 3238, University of California, Berkeley, California 94720.

Lawrence Livermore Laboratory. Postdoctoral research appointments and graduate research assistantships. Areas of special interest include development of computer systems, computer graphics, numerical analysis, and programming science, as well as basic research in the fields of hydrodynamics, astrophysics, environmental science, neutronics, plasma physics, and research into new sources of energy. U.S. citizenship required. Inquiries should be directed to Dr. S. Fernbach, Computation Department, Lawrence Livermore Laboratory, University of California, Livermore, California 94550.

Los Alamos Scientific Laboratory. Offered to U.S. citizens holding the Ph.D., with research opportunities in computer science, numerical science, and applied mathematics. A limited number of postdoctoral appointments are available for one year, subject to renewal for a second year. Los Alamos Scientific Laboratory is an equal opportunity employer. Write to Recruiting Department, Los Alamos Scientific Laboratory, University of California, Livermore, California 87544.

Mathematics Research Center. A small number of visiting research member appointments at all levels from postdoctoral up, and which carry visiting academic status at the University of Wisconsin. For information, write to Professor R. Creighton Buck, Acting Director, Mathematics Research Center, University of Wisconsin, Madison, Wisconsin 53706.

*Andrew Mellon Postdoctoral Fellowships. Intended to support the research and foster the professional development of young scholars who give promise of achieving distinction in their fields. Applicants should submit a completed application form, a research proposal, a list of publications, and three letters of recommendation. The Fellows are expected to be in residence at the University of Pittsburgh and to engage in research during their period of appointment; they have no other formal responsibilities. A basic stipend of $7,000 for 11 months, plus an allowance of $500 each for 1, 2, or 3 eligible dependents; traveling expenses, up to $200 and incidental costs not to exceed $200, make up the award. Applications may be obtained from the Director of Graduate Programs, Faculty of Arts and Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania 15260.

C. L. E. Moore Instructorships in Mathematics. Offered by the Department of Mathematics at the Massachusetts Institute of Technology. Open to young mathematicians with doctorates who show definite promise in research. The base salary will be at least $12,500, and the teaching load is six hours per week in one semester and three hours per week in the other. The appointments are annual but renewable for one additional year. Applications should be filed not later than January 3 on forms obtained from the Department, 2-173, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139.

National Aeronautics and Space Administration. Postdoctoral and Senior Postdoctoral Resident Research Associateships. Open to individuals at the postdoctoral level who have the Ph.D., Sc.D. degree, or its training equivalent, or who have completed the requirements for one of these degrees. Open to U.S. citizens and to foreign nationals. Tenable at Ames Research Center, Moffett Field, California; Goddard Space Flight Center, Greenbelt, Maryland; Goddard Institute for Space Studies, New York City; Jet Propulsion Laboratory, Pasadena, California; Langley Research Center, Hampton, Virginia; Lewis Research Center, Cleveland, Ohio; Johnson Space Center, Houston, Texas; Marshall Space Flight Center, Huntsville, Alabama; and Wallops Flight Center, Wallops Island, Virginia. Forms are available from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Annual stipend begins at $15,000. Senior stipend variable. Deadlines for receipt of completed applications in 1975 are January 15, May 15, September 15, with announcement of awards in March, July, and November.

National Aeronautics and Space Administration. Research Grants. Through grants and contracts to educational and nonprofit institutions and industries, NASA sponsors research in fundamental and applied mathematics related to space science and engineering problems. Unsolicited proposals should be submitted to the Office of University Affairs, Code PY, National Aeronautics and Space Administration, Washington, D.C. 20546.

*No current information.
National Bureau of Standards. Postdoctoral Research Associateships. Awards are made in several fields, including mathematics. Tenable in the Gaithersburg, Maryland area and Boulder, Colorado. Applicants should state, in some detail, their field of specialization and should indicate area of interest. Annual stipend for these appointments is not less than $14,000. More details regarding this program may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Deadline for submission of applications is January 15, 1975. No materials will be distributed after January 5, 1975.

National Research Council. Research Associateships Programs. These programs afford qualified scientists and engineers opportunities for postdoctoral research on problems of their own choice in a variety of scientific disciplines and fields of specialization. The programs are conducted on behalf of and in cooperation with certain Federal organizations with laboratories at more than eighty geographic locations in the United States. Applications for these competitive awards will be received by the National Research Council until January 15, 1975. Appointments will be made in April for tenure to begin on or before July 1, 1975. Stipends, which are subject to income tax, will vary according to the type of appointment, but will not be less than $15,000. Further information and application materials can be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

National Science Foundation. Research and Travel Grants. Proposals are accepted at any time, but in order to insure full consideration, proposals requesting support which is to begin prior to September 1, 1975, should be in the hands of the Foundation six months prior to the desired starting date of such support, but not later than November 1, 1974. Instructions for the preparation of proposals, contained in a booklet entitled "Grants for Scientific Research", may be obtained upon request from the Mathematical Sciences Section, National Science Foundation, Washington, D.C. 20550.

National Science Foundation. 90 Postdoctoral Energy-Related Fellowships. Open to U.S. citizens or nationals with recent doctorates in science for full-time study in energy-related problems. The $12,000 stipend provides for energy-related study and research at any appropriate U.S. or foreign institution. Deadline is January 6, 1975. For application write the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

National Science Foundation Faculty Fellowships. For teachers of science, mathematics and engineering at universities, colleges, and junior and community colleges. Approximately 50 fellowships will be awarded to faculty members who have had five or more years of full-time teaching experience, who are citizens or nationals of the United States, and who hold at least a baccalaureate. Competition will be divided into two categories: applicants with a doctorate and applicants without one. The Faculty Fellowships may be used for period of three to nine months. Travel allowances are also paid. In addition, NSF will provide the fellowship institution with an allowance to assist the institution in meeting tuition and other costs. Application materials can be obtained from the Faculty Fellowship in Science Program, Division of Higher Education in Science, National Science Foundation, Washington, D.C. 20550.

Naval Ordnance Laboratory. Postdoctoral Research Associateships. Awards are made in several fields, including mathematics. Tenable in Silver Spring, Maryland. Annual stipend for these appointments is not less than $15,000. More details regarding this program may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Deadline for submission of applications is January 15, 1975. No application material will be distributed after January 10, 1975.

Naval Research Laboratory. Postdoctoral Research Associateships. Awards are made in several fields, including mathematics. Annual stipend for these appointments is $15,000. Applications must be postmarked not later than January 15, 1975. More details regarding this program may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

Oak Ridge National Laboratory. Limited number of postdoctoral appointments. Applications are invited from university faculty for participation in its research, especially for the summer. Areas of interest are reactor mathematics, numerical analysis, computer programming, mathematical physics, probability, and statistics. Of special interest are well-qualified applicants in applied mathematics with interest and competence in continuum mechanics, operations research, or the Monte Carlo method. For further information, write to Dr. G.D. Robbins, Director, Office of Professional and University Relations, Oak Ridge National Laboratory, Post Office Box X, Oak Ridge, Tennessee 37830.

Benjamin Pierce Lectureships. Rank of Assistant Professor. The appointments are for three years with a starting salary of $11,700 (for the nine-month academic year) and annual increments of $500. This salary can be augmented during the summer by teaching at summer school or by work on a research contract if funds are available. The teaching commitment is six hours a week, including a graduate course on a subject of the lecturer's choice, if desired. Application forms may be obtained by writing to the Department of Mathematics, Harvard University, 1 Oxford Street, Cambridge, Massachusetts 02138, and should be filed by January 20, 1975.
Sandia Laboratories. The Sandia Laboratories operated by Western Electric under contract with the U.S. Atomic Energy Commission offer research opportunities in numerical mathematics, applied mathematics and mathematical systems analysis. Areas of special interest are numerical treatment of differential equations, special functions, statistics and applied combinatorics. A limited number of postdoctoral appointments are available for one year, renewable for a second year. There are also occasional openings for university faculty appointments in the summer. Interested U.S. citizens should apply to Dr. Gustavus J. Simmons, Manager; Applied Mathematics Department - 5120; Sandia Laboratories, Albuquerque, New Mexico 87115.

Sloan Foundation. Unrestricted grants made to selected young university scientists in the physical sciences (including mathematics) and in neuroscience. Candidates in the physical sciences must be members of the regular faculty, though not necessarily in a tenured position, at a recognized college or university in the United States or Canada. In neuroscience postdoctoral fellows as well as those in junior faculty positions will be considered. Candidates do not apply but are nominated by their department chairmen or other scientists. For information write to the Alfred P. Sloan Foundation, 650 Fifth Avenue, New York, New York 10020.

Smithsonian Institution. Postdoctoral Fellowships. Appointments to individuals possessing the Ph.D. or equivalent degree, generally limited to those having received the degree within five years of commencing tenure at the Smithsonian and in all cases limited to individuals requiring research training in association with a member of the Institution's professional staff. Offered annually in the history of mathematics, usually for a period of twelve months, but never for less than six months. $10,000 stipend, plus research expense allowance. Deadline for application is January 15th yearly for the following academic year. Further information and application forms may be obtained from the Office of Academic Studies, Smithsonian, Washington, D. C. 20560.

State University of New York at Buffalo. The Department of Mathematics will award George William Hill and Emmy Noether Research Instructorships to young mathematicians who are recent Ph.D.'s, thereby enabling them to carry forward a research program. All requirements for the Ph.D. must be completed by September 1, 1975. At least one and not more than two Research Instructorships will be awarded for 1975-1977 with each appointment being for two years. The twelve-month stipend, beginning September 1975, is $16,200 including generous staff benefits. Teaching load will total two one-semester courses during the twelve-month period. Upon expiration of the two-year appointment, priority consideration for a three-year appointment as assistant professor will be given and will be based upon success and potential in both research and teaching. Each applicant should prepare a summary of his or her post-high school educational background, as well as a sketch of past and projected research activity, and should request at least three mathematicians to send letters of recommendation. Application forms are available upon request. No one holding academic rank at SUNY/B is eligible to apply. Applications and supporting letters should be sent to Professor N.D. Kazarinoff, Chairman, Department of Mathematics, SUNY at Buffalo, 4246 Ridge Lea Road, Amherst, New York 14226, so as to arrive by January 20, 1975. Appointments will be made shortly thereafter.

U.S. Army Natick Laboratories. Postdoctoral and Senior Postdoctoral Visiting Scientists Research Associateships. Awards made in several fields, including mathematics. Tenable in Natick, Massachusetts. Annual stipends for these appointments begin at $15,000. Senior stipend variable. More details regarding this program may be obtained from the Associateship Office, JH 606, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Deadline for receipt of completed applications in 1975 is January 15, with announcement of awards in April.

U.S. Army Research Office. The primary mission of the U.S. Army Research Office is the support of unclassified basic research in the mathematical, physical, engineering, environmental, and life sciences in the United States. Proposals for support are made by individual scientists or groups of scientists through their institutions or business offices. Support is given primarily through contracts or grants at educational institutions, research institutes, and industrial laboratories. For further information write to the Commanding Officer, U.S. Army Research Office, Box CM, Duke Station, Durham, North Carolina 27706.

*No current information.
Foreign Area Fellowship. Research in specified health and health related areas, especially as related to health and disease. Applicant must have earned an appropriate degree and show that his goal is a research career in the health related sciences. U.S. citizenship or lawful admittance to the U.S. for permanent residence is required. Announcements and application kits available from Fellowships Section, Office of Research Manpower, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014.

*John Wesley Young Research Instructorships. Two instructorships are awarded each year. Teaching duties average six hours per week and are of a varied and nonroutine nature. The academic-year stipend of $10,500 is supplemented by a summer research fellowship of $2,000. Appointments are for two years and are not renewable. Applicants should write to Richard H. Crowell, Chairman, Department of Mathematics, Dartmouth College, Hanover, New Hampshire 03755 (Attention: RECRUITING).

Travel and Study Abroad

Alliance Francaise de New York. For French and American students, a limited number of scholarships for graduate study in the U.S. and in France. Fields unrestricted. Scholarships are in the amount of $1,300 to $2,000. Applicants must be between the ages of 20 and 30 and have a working knowledge of English. For further information, write to Commission Franco-Americaine d'Echanges Universitaires et Culturels, 9, rue Chardin, Paris 75016, France, for French students; Institute of International Education, 809 United Nations Plaza, Department of Information and Study Abroad, New York, New York 10017 for American students.

American Association of University Women, International Fellowships. Approximately 50 awards made to women of other countries for advanced study, except that awards are not made in the creative or performing arts. An applicant must hold the equivalent of a bachelor's degree, be proficient in English and intend to return to her own country. Forms may be obtained from the University Women's Association or Federation in the applicant's country or the Cultural Affairs Officer of the U.S. Embassy. (U.S. address, Fellowships Office, AAUW Educational Foundation, 2401 Virginia Avenue N.W. Washington, D.C. 20037.) Application deadline is December 1 for subsequent academic year.

American-Scandinavian Foundation. Graduate fellowships to be used in Scandinavia. Applicants must be U.S. citizens who have completed their college education and must be under 40 years old. Completed application deadline is December 1 (November 1 for Marshall Fellowships for Denmark). Write to the Exchange Division, The American-Scandinavian Foundation, 127 East 73rd Street, New York, New York 10021.

*Foreign Area Fellowship Program. The program provides support to advanced doctoral candidates at U.S. and Canadian universities for dissertation research in Africa; the Near East; East, South, and Southeast Asia; Western Europe; Latin America; and the Caribbean. Full information on this program may be obtained by writing to the Foreign Area Fellowship Program, 110 East 59th Street, New York, New York 10022.

Fulbright-Hays Program. Grants for study abroad. For graduate study or research in any field in which the project can be profitably undertaken abroad. Applicant must be a U.S. citizen and have language proficiency sufficient to carry out the proposed study and to communicate with the host country. If an applicant is already enrolled in a U.S. university, he must apply directly to the Fulbright Program Advisor on his campus. Unenrolled students may apply to the Institute of International Education. Further details may be obtained from the Information and Reference Division, Institute of International Education, 809 United Nations Plaza, New York, New York 10017.

Fulbright-Hays Program. Postdoctoral Awards. United States Government grants available annually in all fields for university lecturing and postdoctoral research abroad. Eligibility requirements include U.S. citizenship; for lecturing, college teaching experience; for research, a doctoral degree or recognized professional standing at the time of application. In certain cases a knowledge of the language of the host country is required. Grants are generally tenable for one academic year in one designated country and include round-trip transportation for the grantee, maintenance allowance to cover living expenses of grantee and family, and a small incidental allowance to cover supplies and services essential to the project. Subject to the availability of funds, a supplemental dollar grant for lecturers in most non-European countries may be given. Write to Council for International Exchange of Scholars, Senior Fulbright-Hays Program, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

Graduate and Post-graduate Exchange with Poland. Open to American and Polish citizens at least 21 years of age. American candidates must have at least a master's degree and a knowledge of the Polish language. Polish candidates must have at least their master's degree and preferably their doctorate, plus sufficient knowledge of the English language. Polish citizenship is required for study in

*No current information.
the United States; U.S. citizenship is required for study in Poland. Apply by January 15 for the following academic year. Write to Kosciuszko Foundation, 15 East 65th Street, New York, New York 10021.

**Italian National Research Council Fellowships.** Reserved for foreign nationals. The monthly stipend is 180,00 Italian lire in addition to a travel allowance covering round-trip transportation to Italy. Applications should be addressed to: Consiglio Nazionale delle Richerche, piazzale delle Scienze 7;00100 Roma, Italy. No special application forms are needed, but the application should include 1) Date and place of birth 2) Country of citizenship 3) Place of residence 4) Curriculum vitae with a list of publications 5) Knowledge of Italian and of other foreign languages 6) Names of Italian mathematicians under whose director the applicant would like to work or study. At least two letters of recommendation should accompany the application.

**International Research and Exchanges Board (IREX).** This board administers academic exchange programs, open to advanced graduate students, postdoctoral scholars, and faculty members in all fields of study who are United States citizens, and who are affiliated with a North American college or university. Exchange agreements are in effect with Bulgaria, Czechoslovakia, Hungary, Poland, Romania, Yugoslavia, and the USSR. Placements are usually made for a semester or an academic year, but longer or shorter stays are possible by special arrangements. In addition to exchange fellowships, IREX offers ad hoc grants to promote new exchanges; grants for collaborative projects involving American scholars and their counterparts in Eastern Europe and the USSR; short-term travel grants to the USSR for scholars in the contemporary social sciences; and fellowships for preparatory area studies in the United States and Canada. For more detailed information, write to the International Research and Exchange Board, 110 East 59th Street, New York, New York 10022.

**Latin American Teaching Fellowships.** Applications for teaching positions in Latin American universities are now being accepted from natural and physical scientists and engineers with advanced degrees, or who are Ph.D. candidates. Placement possibilities now exist for the 1975-1976 academic year. These teaching fellowships are part of a service program designed to assist Latin American universities to develop more advanced technical and scientific programs. Salaries are thus geared to a moderate level rather than being competitive with North American salaries. Inquiries should be addressed to Latin American Teaching Fellowships, Fletcher School of Law and Diplomacy, Tufts University, Medford, Massachusetts 02155.

**Marshall Scholarships.** Offered by the British Government to U.S. graduates; tenable at any university in the United Kingdom. Recipients of awards are required to take a degree at their British university. Fields unrestricted. Apply through British Consulates-General in the following regions: (1) Northeast: Suite 4740 Prudential Tower, Prudential Center, Boston, Massachusetts 02199; (2) Midwest: 33 North Dearborn Street, Chicago, Illinois 60660; (3) South: Suite 912, 225 Peachtree Street N.W., Atlanta, Georgia 30303; (4) Pacific: 9th Floor, 120 Montgomery Street, San Francisco, California 94104.

**National Academy of Sciences.** Applications are invited from U.S. scientists who wish to make visits during the period September 1976 through August 1977 to the USSR, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, or Yugoslavia. Visits may be from one month to twelve months. Applications for one-month visits to the USSR may be made in alternate years, and NAS will receive them in 1975. Requirements are U.S. citizenship and the Ph.D. All necessary expenses will be met by the NAS; salary reimbursement up to $1,500 per month during a visit of three months or more; expenses for family on visits of five months or more. For further information, write to the Commission on International Relations, USSR/EE, National Academy of Sciences, 2101 Constitution Avenue N.W., Washington, D.C. 20418.

**North Atlantic Treaty Organization.** Postdoctoral Fellowships. Awarded for nine- or twelve-month period, for scientific study or work at appropriate nonprofit institutions in NATO countries, other than the U.S., or countries that cooperate with NATO. This program, for citizens or nationals of the U.S., is designed primarily for individuals who have received their doctorates within the past five years. Fellows receive a stipend of $9,000 for twelve-month tenure, plus a dependency and travel allowance. Application deadline is November 4, 1974. For information and application materials, write to Fellowship Section, Division of Higher Education in Science, National Science Foundation, Washington, D.C. 20550.

**North Atlantic Treaty Organization.** Senior Fellowships in Science. Enable universities and nonprofit research institutions in the U.S. to send senior staff members to study new scientific techniques and developments at research and educational institutions in other NATO nations, or in countries cooperating with NATO, for tenures of one to three months. An institution may nominate an individual who has full professional standing in his field; at least five years’ experience in research, teaching or other relevant professional work; and appropriate linguistic abilities. Work undertaken should offer direct benefits to the nominating institution. A per diem allowance and one round-trip jet economy air fare are provided. Application materials are available from August through January 1974.

*No current information.*
from the Division of Graduate Education in Science, National Science Foundation, Washington, D.C., 20550. Deadline for receipt of applications is January 31, 1975.

North Atlantic Treaty Organization. The NATO Science Committee makes a number of awards each year for training and education in fields in the systems science area. (1) Graduate degree apprenticeship in Systems Science. To enable young scientists to pursue graduate programmes leading to advanced degrees in fields in the systems science area (Systems Analysis, Operational Research, Management Science, Management Engineering, Systems Engineering, etc.) and also to obtain practical training in places where they will be exposed to real life problems. A normal grant is for three years, subject to satisfactory progress in each year, and is applicable to participating universities and institutions. Applicants should have first degree level of university education with very high scholastic achievement and a sound basic training in mathematics relevant to the systems field. The award is a yearly stipend to cover living expenses, tuition and other expenses, but not to exceed B.fr.180,000 per year. (2) Study Visits. This programme is designed for scientists of NATO countries to make short visits to scientists and/or institutions in other NATO countries, with the objective of receiving expert advice in connection with a research project and a well-defined problem in the systems science area. (3) Visiting Experts. This programme is designed to help developing or newly formed systems science groups in NATO countries, which are active in fields in the systems science area and are in need of receiving advice or assistance from an expert in another country. It is applicable in cases where visiting scientists can make a substantial contribution to the work of the organization being visited. Application forms and further details of these awards together with information about the Science Committee’s other programmes in the systems science area can be obtained from: Scientific Affairs Division, NATO, 1110 Brussels, Belgium.

*Rotary Foundation. Graduate Fellowships and Undergraduate Scholarships. One academic year of study abroad for the 1975–1976 year is available to outstanding young men and women who are interested in world affairs and who can fulfill a dual role of scholar and "ambassador of good will." Graduate fellowships and undergraduate scholarships cover full transportation, education, living, and miscellaneous expenses for one academic year, plus, in certain cases, a period of intensive language training in the study country prior to the commencement of the regular academic year. Awards are made for study in any field and are tenable in more than 149 countries in which there are Rotary Clubs. An applicant for a graduate fellowship must be between the ages of 20 and 28 inclusive as of March 15, 1974, married or single, and have obtained a bachelor’s degree or equivalent prior to the beginning of his fellowship year. An applicant for an undergraduate scholarship must be between the ages of 18 and 24 inclusive as of March 15, 1975, must be single, and have completed two years of university level work but not have obtained a bachelor’s degree prior to the beginning of his scholarship year. Application must be made through the Rotary Club nearest to the applicant’s permanent residence not later than March 15, 1975.

Royal Norwegian Council for Scientific and Industrial Research. Postdoctorate Fellowships. Fields: engineering and applied sciences. Candidates should not be more than 35 years of age, Studies can be carried out at the Universities of Oslo and Bergen, the Technical University of Norway, and at different institutes for applied research in Oslo, Bergen, and Trondheim, English may be used at all institutes; German and French at some institutes. Deadline each year is January 1. Write to Royal Norwegian Council for Scientific and Industrial Research, Gaustadalleen 30, Oslo, Norway.

Alexander Von Humboldt Foundation. Research Grants. Provides young scholars with the opportunity of carrying out a research project at a German university or research institute. Scholars of all nationalities and disciplines may apply. Selection is based exclusively on academic merit. Applicants must have completed their academic studies and have evidence of a degree equivalent to the German doctorate, be between 25 and 35 years old, and have adequate knowledge of German. Applications may be carried from and returned directly to the Alexander Von Humboldt Foundation, Schillerstrasse 12, D-53 Bonn-Bad Godesberg, Federal Republic of Germany.

Study in the U.S. for Foreign Nationals

Alliance Française de New York. For French students, a limited number of scholarships for graduate study in the U.S. Fields unrestricted. Scholarships are in the amount of $1,100. Applicants must be between the ages of 20 and 30 and have a working knowledge of English. For further information, write to Chairman of Scholarships Committee, French Institute/Alliance Française, 22 East 60th Street, New York, New York 10022 or Commission Franco-Américaine d’Échanges Universitaires et Culturels, 9, rue Chardin, Paris 16ème, France.

Fulbright-Hays Program. Grants under the Fulbright-Hays Act for study, research, teaching and lecturing in the United States are available to nationals of many countries. Information regarding these opportunities may be secured from the Cultural Affairs Officer of the United States Embassy or from the binational Educational Commission or Foundation if there is one in the inquirer’s own country. (U.S. address: Information and Reference Division, Institute of International Education, 809 United Nations Plaza, New York, New York 10017.) The number of grants for the academic year 1975–1976 will depend on funds available.

*No current information.
Sources of Fellowship Information

American Philosophical Association. Fellowship and Grant Opportunities of Interest to Philosophers, American Philosophical Society, 104 South Fifth Street, Philadelphia, Pennsylvania 19106.


Eastman Kodak Fellowships and Scientific Awards. For information concerning which universities and colleges Eastman Kodak has endowed write: The Secretary, Financial Aid Committee, Eastman Kodak Company, 343 State Street, Rochester, New York 14650.

Exchange Programs with Eastern Europe and the Soviet Union for 1975-1976. International Research and Exchanges Board (IREX), 110 East 59th Street, New York, New York 10022. Gives details on the programs administered by IREX which include exchanges for a semester or an academic year, short term travel grants, and awards for support of collaborative projects.


Fellowships and Grants. Social Science Research Council, 605 Third Avenue, New York, New York 10016. Describes the programs of fellowships and grants offered by the Council and the foreign area programs that it sponsors jointly with the American Council of Learned Societies.


National Endowment for the Humanities. The Endowment operates through four programs. Information about the Endowment that may be of particular interest may be obtained from Dr. James H. Blessing, Division of Fellowships and Stipends, National Endowment for the Humanities, 806 15th street N.W., Washington, D.C. 20506.

Scholarships, Fellowships and Loans News Service. The Staff, Bellman Publishing Company, P.O. Box 164, Arlington, Massachusetts 02174, published quarterly, $22.00 per year. Up-to-date information regarding student financial aid. Annotated bibliography of books and professional journals.

Selected List of Major Fellowship Opportunities and Aids to Advanced Education for United States Citizens. Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, D.C. 20418. Contains a list of fellowships available on the undergraduate, graduate, and postdoctoral levels plus a bibliography giving other sources of information on fellowships, scholarships, and loans.


Study Abroad. Write UNESCO, 75 Place de Fontenoy, Paris VII, France.
TAX STATUS OF GRANTS

Under Section 117 of the Internal Revenue Service Code, assistantships, fellowships, and grants meeting certain conditions are excludable from gross income and therefore not subject to the Federal Income Tax. It should be emphasized that the claim for exclusion is made by the individual taxpayer, not by the institution supplying the funds. The Internal Revenue Service has given the following interpretation of Section 117.

"Section 117(a) of the Internal Revenue Code of 1954 permits an individual to exclude from his gross income amounts received as a scholarship or fellowship grant. Whether the amounts received are in fact a scholarship or fellowship grant, i.e., are paid for the primary purpose of furthering the recipient's education and training, is a conclusion by the Internal Revenue Service on the basis of the facts in a particular case.

"Section 117(b)(1) of the Code provides that in the case of individuals who are candidates for a degree the exclusion from gross income shall not apply to that portion of any amount received as payment for teaching, research, or other services in the nature of part-time employment required as a condition to receiving the scholarship or fellowship grant. However, if teaching, research, or other equivalent services are required of all candidates for a particular degree as a condition to receiving the degree, such teaching, research, or other services shall not be regarded as part-time employment.

"In situations where research is required of all degree candidates, but only those students who engage in teaching receive stipends, the Service would conclude that the stipend was not excludable under Section 117(a) of the Code, but was paid for services rendered in the nature of part-time employment.

"If research and teaching services are required of all degree candidates and such research and services are performed for the primary purpose of furthering the students' education and training, the Service would conclude that stipends paid for the research and teaching services, required of all degree candidates, are excludable from the recipients' gross income under Section 117(a) of the Code. However, amounts paid to a degree candidate for teaching services not strictly required as a condition to receiving the degree for which the recipient is a candidate, at the time he performs the service, represents compensation for services rendered which is includable in the recipients' gross income."

To help expedite the processing of returns, two forms are given below showing the types of information which should be provided by the graduate school for the Internal Revenue Service to help determine the validity of the claimed tax exclusion.

Factual statement to support individual application for total exclusion of stipend from gross income

TO WHOM IT MAY CONCERN:

During the calendar year 19_________________ served as a Research Assistant in the Department of ______________________ at ______________________ from ____________ to _____________.

He was paid a stipend of $____________ for his services. The funds were derived from _____________________________.

At the same time, he was a candidate for the degree of ______________. The research which he performed under this arrangement met, in part, the requirements for this degree.

Equivalent research is required of all students working for this same degree at ______________________, regardless of whether or not they are compensated for their services.

Factual statement to support individual application for partial exclusion from Federal Income Tax

TO WHOM IT MAY CONCERN:

During the calendar year 19_________________ served as a ______________ in the Department of ______________________ at ______________________ from ____________ to _____________.

He was paid a stipend of $____________. The funds were derived from _____________________________.

At the same time he was a candidate for the degree of ______________. During this period the candidate spent approximately (a) __________ percent of his working time __________, which is not required for the degree, (assigned duties), and (b) __________ percent of his time on degree requirements. The research or study which he performed under (a) met in part the requirements for his degree. Equivalent research is required for all students working for this same degree at ______________________, regardless of whether or not they are compensated for their services.
Instead of paying one stipend to those students who are actually being paid for services on a part-time basis and who might request a partial exclusion for the time spent on degree requirements, it is possible for a university to make two awards to such students. One award would be computed on a straight salary basis for the time the student worked, and the student would then report his salary to the Internal Revenue Service in the usual way. A second award would be considered a fellowship, on which the student might request total exclusion.

The Department of the Treasury publishes a ten-page pamphlet entitled "Tax Information for American Scholars in the U.S. and Abroad," Publication 520 (10-71). This pamphlet is available at most Internal Revenue offices, and bulk orders may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402, for $0.15 a copy; larger quantities are $11.25 per one hundred copies.

The above statement includes some revision to clarify the statements published under this heading in previous December issues of the .
INDEX OF ABSTRACTS
Volume 21 (1974)


ABDELKADER, Mostafa A. Real identities connecting circular and hyperbolic functions, A-377.


ABE, Kenetsu and ERBACHER, Joseph A. Isometric immersions with the same Gauss map. Preliminary report, A-308.


ABRAMSON, Fred G. and SACKS, Gerald E. On countable $\alpha$-recursive wellorderings of $\alpha$, A-381.


ACKERMANN, Ernest. $j$-diagrams for torsion free abelian groups, A-390.


ADLER, Andrew and WILLIAMS, R. Douglas. Rings of operators on direct product of commutative semigroups which are the union of 2-factors in squares of graphs, A-37.


ALPERT, Seth R. Two-fold triple systems and graph embeddings, A-596.


ALSTER, K. and PRZYMUSINSKI, Teodor C. Normality and Martin's axiom, A-452.


ALTHOEN, Steven C. A geometrical realization of a construction of Bass and Serre, A-408; A Seifert-van Kampen theorem for the second homotopy group. II. Preliminary report, A-570; A van Kampen theorem. Preliminary report, A-630.

ALVAREZ, Jairo. Linear functionals and local measures, A-486.


ANDERSON, Glen D. Extremal rings in $n$-space for fixed and varying $n$, A-122.


ANDERSON, James A. and KIMURA, Naoki. Tensor product of commutative semigroups which are the union of groups, A-83.


ANDREWS, George E. On the ordered factorization of $n$ and a conjecture of C. Long, A-266.


ANTON, Howard. See DURIS, Charles S.

ANTOSIEWICZ, Henry A. Bifurcation and admissibility, A-137.


APPLING, William D. L. Set functions, pointwise convergence and integral convergence, A-9; A convergence theorem for the dual of a certain function space, A-308; A representation characterization theorem, A-375; A right hand integral representation theorem for a class of quasi-continuous functions, A-442; Absolute continuity characterizing sets, A-532.


ARMACOST, David L. Compactly cogenerated LCA groups, A-111.


ARMADORIZ, E. P., FISHER, Joe W. and STEINBERG, Stuart A. Central localizations of regular rings, A-69.


ARNQUIST, Clifford W. A covering property of continua having an uncountable set of disjoint nonseparating plane embeddings, A-413.

BORGES, Carlos. Free topological groups, A-559.


BOWMAN, Thomas T. The extension of the Pontryagin character functor to continuous-inverse abelian semi-groups, A-114.

BOYCE, William E. See LAGINESTRA, Anthony V.

BOYD, Michael W. See TRANSE, William B.

BOYD, L. The singular boundary value problem arising

BOYD, L. The singular boundary value problem arising

BRAUDE, Eric. See BROWN, Thomas C.

BROWN, Ezra. Diophantine equations of the form

BROWN, Marshall M. A proof that


BRUCK, Ronald E., Jr. Weakly and strongly convergent iterative solutions of 0 ∈ (x) for a maximal monotone operator U, A-192; Convergence of steepest descent for convex functions in Hilbert space, A-303.


BURLY, Richard T. and NOBBS, David E. Amitsur homology of quadratic extensions: formulas and number-theoretic examples, A-293.


BURRE, Victor, DUFFIN, R. J. and HAZONY, D. Distortionless wave propagation in inhomogeneous media and transmission lines, A-615.

BURNHAM, James T. On the multipliers of $\mathbb{A}_p(\mathbb{G})$-algebras, A-7.

Burr, Stefan, A., ERDÔS, Paul and SPENCER, Joel H. Ramsey theorems for multiple copies of graphs, A-35.


BUSEMANN, Herbert. Problem IV: Desarguesian


BUDD, Hubert S. and YEAGY, Robert W. Finite bases for integral closures, A-60.

CAHN, Robert S. The asymptotic expansion of the zeta-function of a compact semisimple Lie group, A-209.
CAMILLO, Victor and FULLER, Kent. On Loewy length of rings, A-78.
CANDOTTI, Alan. The order of \( K_2/\mathbb{Q} \) for \( K_2/\mathbb{Q} \) for quadratic fields, A-388.
CANNONITO, Frank B. See GATTERDAM, Ronald W.
CAPUANO, Michael F. Testing a graph for connectedness, A-91.
CARASSO, Philip. Space, CAHN, Robert S.
CARLITZ, Leonard. The order of \( \psi(n) \) for odd \( n \). Preliminary report, A-11.
CARLON, Bille C. Taylor series and Jacobi series, A-129.
CARLSON, Jon P. A basis for some relative permutation representation rings, A-94.
CARMICHAEL, Richard. The exact values of certain antiflexible rings, A-79.
CASAS, Peter G. and LIN, Bor-Luh. Projections on Banach spaces with symmetric bases, A-182.
CECIL, David R. Ternary algebras, bilinear forms, and automata, A-84.
CHADWICK, Richard S. See INSELBERG, Alfred.
CHAITIN, Gregory J. A theory of program size formally identical to information theory, A-497.
CHAMBERLAIN, Michael W. The excessive functions of a continuous time Markov chain, A-238.
CHANEY, Robin W. On the rate of convergence of some feasible direction algorithms, A-254.
CHANG, Theodore and SKJELBRED, Tor. Lie group actions on rational cohomology Cayley projective planes, A-229.
CHAPMAN, William H. and RANDTKE, Daniel J. On the complementation of \( \mathcal{A} \), A-610.
CHRAND, Gary. See ALAVI, Yousef.
CHRISTIAN, Floyd L., Jr. and JOHNSON, James J. An explicit formula for the optimum point of a quadratic subject to linear equality constraints, A-526.
CHINDA, Kewal P. The equation \( F(F(x, y), F(z, y)) = F(x, z) \). Preliminary report, A-153.
CHUKWU, E. N. and HAJEK, O. Disconjugacy for systems, A-537.
CHUNG, Lung Ock. Manifolds carrying bounded quasiharmonic but no bounded harmonic functions, A-626.

CHWE, Byoung-Song. A necessary condition for a ring such that each module has an irreducible epimorphic imago. Preliminary report, A-74.

CIGNOLI, Roberto L. O. Injective De Morgan and Kleene algebras, A-293.

CIMENT, Melvyn, See BERGER, Alan E.


CLARKE, Frank. See JANISIM, Robert E. I.


COHEN, Donald B. and SOBCZYK, Andrew. Factorization of Mersenne numbers, A-337.


COWEZENS, John H. Maximal orders and reflexive modules, A-77.

CRANEWELL, R. J. See BRENNER, J. L.

CRAWLEY, Peter. Structure theorems for a class of p-groups, A-97.


CRONE, Lawrence J. and ROBINSON, William B. Every nuclear Fréchet space with a regular basis has the quasi-equivalence property, A-180.


CRUSE, Allan B. and NEFF, M. F. Finite embeddability in a class of infinitary algebras, A-607.

CUNNINGHAM, Joel. See COLEMAN, Donald B.


CUNNINGHAM, Robert S. See LEPSON, Charles S.


CUNNINGHAM, Brian A. See WEISS, Guido L.


EDWARDS, David and McAULEY, Patricia. The shape of a map, A-408.
EDWARDS, Robert D. and MILLER, Richard T. Cell-like 0-dimensional decompositions of $R^q$ and $R^p$ factors, A-331.
EDWARDS, Robert D. and SCHABLEMANN, Martin G. A remark on suspensions of homology spheres, A-324.
ERFYMOND, Gustavo A. A nullstellensatz for Nash rings. A-496.
EGGEN, Maurice L. See CHAFFER, Robert A.
EHLICH, Gertrude. Units and one-sided units in regular rings, A-437.
EHLICH, Paul Ewing. A local minimization of the convexity radius function on the space of metrics of a compact manifold, A-206; Complete, nonpositively curved "negatively pointed" metrics on $S_1 \times S_1 \times R^2$. Preliminary report, A-314.
EIDSWICK, John A. On nonintersecting truncations of families of lines, A-311.
EISEMAN, Peter R. See STONE, Alexander P.
EISNER, Julian R. Knots with infinitely many minimal linearized Boltzmann and Navier-Stokes equations, A-487.
EISENFELD, Jerome and LAKSHMIKANTHAM, V. Existence and uniqueness of solutions of nonlinear differential equations of Sobolev type, A-245.

FENNEMORE, Charles F. The construction of a subdirectly irreducible band which accepts the identity a = a, and generates the variety of all bands. Preliminary report, A-4.

FIALKOW, Lawrence A. A note on the similarity orbit of a normal operator, A-195.


FINDLEY, David F. Frechet semiderivatives, A-180.


FISHER, Stephen D. and JEROME, Joseph W. Spline solution to $L^1$ extremal problems in one and several variables, A-155.


FLAHERTY, Francis J. Lorentzian manifolds with non vanishing Ricci tensor, A-446.


FLEISHMAN, Bernard A. Abelian operators on $L^p$ and $C(K)$, A-191; Operators on $L^p$ and $C(K)$, A-105.

FLEMING, Richard J. and JAMISON, James E. Adjoint groups, A-155.

FRIEDBERG, Michael. Subresidually compact semi-groups, A-86.


FRIEDMAN, Harvey. The disjunction property implies the numerical existence property, A-552; Primitive recursive arithmetic without induction, A-595.

FRIEDMAN, Michael. Optimal strategies with prescribed solution $L^q$ extremal problems in one and several variables, A-155.


GAETA, Federico. Period relations for holomorphic differentials on an algebraic curve C of genus p, A-64.


GARDNER, Robert B. Linear m-dependence test in LCA groups. Preliminary report, A-186.


GARFIELD, Michael. Subresidually compact semi-groups, A-86.

GARFINKEL, Gerald, Completely torsionless modules, A-432.

GARRETT, George Thomas. An almost automorphism condition for pointwise limit functions on groups. Preliminary report, A-162.


GARDNER, Clifford S., GREENE, John M., KRUSKA, Martin D. and MIURA, Robert M. An alternate method for solving the Korteweg-deVries equation, A-150.

GARDNER, Robert B. Linear m-dependence test in LCA groups. Preliminary report, A-186.

GARIN, Robert F. and LEWIS, John L. A maximum principle with applications to subharmonic functions in $n$ space, A-374.


GASSMAN, Larry D. See ENTRINGER, Roger C.


GATTERER, Ronald W. and CANNONIO, Frank B. The word problem for one relator groups is primitive recursive, A-94.

GAULD, David B. Local contractibility of spaces of homeomorphisms, A-450.


GERBER, Porter Dean. Left alternative algebras and quadratic differential equations, A-137.


GELLER, Dennis P. and KRONEK, Hazel V. Further results on the achromatic number, A-31.


GEHRKE, Robert. Algebraically closed field, A-601; Products of symmetric functions and their convolutions, A-255.


GEOGHEGAN, Ross and LACHER, R. Christopher. Compacts with the shape of finite complexes, A-503.


GELLER, Dennis P. and KRONEK, Hazel V. Further results on the achromatic number, A-31.


G Tompkins, A-338.

GOLDSMITH, Deborah Louise. A class of Neuwirth sequences and complete automata, A-256.

GOLDBERG, Michael. Covering a square by equal circles, A-662.

GOLDBERG, Michael. Covering a square by equal circles, A-662.

GOLDBERG, Michael. Covering a square by equal circles, A-662.
---. See ABRAHAMS, Fred G.
HARTFIEL, D. J. Results on measures of irreducibility and full indecomposability, A-631.
HEARAL, Charles M. See STENGERS, Frank.
HEIDLER, Klaus. See BUSCH, Frank.
HENGARTNER, W. See RAO, A. Satyanarayan.
HENRIKSEN, Melvin. Conditions that guarantee that every nilpotent of a ring commutes with every element of the ring. Preliminary report, A-79.
HERLANDS, Charles W. Global dimension with respect to a triple, A-80.
HERMANN, Robert A. A simple set-theoretic characterization for proximity spaces, A-324; H(i) semiregular, U(i) and R(i) extensions. III, A-585.
HERRMANN, Robert A. A simple set-theoretic characterization for proximity spaces, A-324; H(i) semiregular, U(i) and R(i) extensions. III, A-585.
HERRMANN, Robert A. A simple set-theoretic characterization for proximity spaces, A-324; H(i) semiregular, U(i) and R(i) extensions. III, A-585.
HERRMANN, Robert A. A simple set-theoretic characterization for proximity spaces, A-324; H(i) semiregular, U(i) and R(i) extensions. III, A-585.

KEIBLER, E. Jerome. The number of types in a first order theory. Preliminary report, A-316.

KEISLER, Michael. A characterization of the closed meet-ideals of the cone of a complete \(\mathcal{L}\)-group, A-435.

KELINGOS, John A. and STAPLES, Phillip O. Every harmonic function in the disk is the Poisson \"integral\" of its boundary \"values\", A-120.


KELLNER, Richard G. See HAYES, John K.


KEOGH, Frank R. See ESSEN, Mattis R.


KERTZ, Robert P. Perturbed semigroup limit theorems with applications to discontinuous random evolutions, A-198.

KESLER, Irving J. and LIVINGSTON, Marilyn. The expected number of parts in a partition of \(n\), A-49.


KILLGROVE, Raymond B. Sylvester-Gallai conjecture does not imply transversal axiom, A-412; Super-Cauchy sequences, A-628.

---. See KOCH, Cheryl.


KING, Larry. See HANSON, Thomas.

KING, Paul L. Homomorphism-valued metrics, A-207.


KLEINBERG, Eugene M. See ABRAMSON, Fred G.


KLEITMAN, Daniel J. Degree sequences and trees, A-390.


KNIGHT, Ronald A. Characterizations of certain continuous flows, A-129.


KNOBLAUCH, Tom. Imbedding deleted \(3\)-manifold neighborhoods in \(E^4\). Preliminary report, A-326.

KNOBLAUCH, T. and LACHER, R. C. The non-cellular points of a map between odd-dimensional manifolds, A-562.


KOBAYASHI, Shoshichi. Intrinsic distances, measures and geometric function theory, A-128.


KOMKOV, Vadim. Legendre transformation applicable to thin plate theory, and corresponding variational principles, A-249.


KOSCHORKE, Ulrich. Bordism of immersions and \(k\)-mers, A-17; Singularities and bordism of \((\text{integrable})\) \(\sigma\)-plane fields, A-628; Rational bordism of frame fields, immersions and \(k\)-mers, A-405; Existence and classification of framefields, A-508; Framefields with finite singularities, A-565.


KOTTMAN, Clifford A. (\(1^+\))-separated subsets of the unit ball, A-178.

KOTTMAN, Clifford and Gagliardo, Emilio. Orientation-preserving homeomorphisms of the plane which interchange two points have fixed points, A-508.


KRAMER, Earl S. and MESNER, Dale M. \(t\)-designs on hypergraphs, A-627; Admissible parameters for Steiner systems \(S(t,k,v)\) with a table for all \((v-t) \geq 488\), A-658.


KREITZ, George. What have we learnt from Hilbert’s Second Problem?, A-462.

KREYSZIG, Erwin. Remark on the normal distribution, A-14; On a class of space curves in affine differential geometry, A-514; Equiareal mapping of surfaces, A-578.
Riemann surface of genus one, A-121.
LEE, Jong P. Isotopy classifications of the isotropy groups of annulus, A-221.
LEECH, Jonathan E. The D-category of a semigroup, A-121.
LEELA, morphic forms, A-437.
LEEMING, J. B. The cyclotomic numbers of order seven, A-1; The cyclotomic
LEITMAN, M. J. and MIZEL, Victor J. Hereditary laws
LEVINE, Jack. See FABES, Eugene B.
LEONARD, Albert E. See HALLENBECK, David J.
LEONARD, Mary L. and MILLER, Sanford Benjamin. See DAVIS, Charles S.
LEDGER, Philip A. and WILLIAMS, Kenneth J. The projectivity of R in its
LEWIS, William James and SHORES, Thomas S. Linear modules and their endomorphism rings, A-59.
LEWIS, John A. See MORRISON, John A.
LEWIS, John L. See GARIFFY, Ronald F.
LEWIS, Paul W. See BROOKS, James K.
LEX, Yudell L. On the error in the Padé approximants for a form of the incomplete gamma function including the exponential function, A-458.
McCleary, Stephen H. The structure of intransitive ordered permutation groups, A–44; The structure of ordered permutation groups applied to lattice-ordered groups, A–336.
McCleary, Donald E. Asymptotic analysis of optimal and efficient interval partitioning, A–160.
McCoy, Peter A. Value distribution of generalized axially symmetric elliptic functions, A–146.
McDaniel, Wayne L. See HAGIS, Peter, Jr.
McDonald, Bernard R. Simple subrings of a matrix ring over a finite field, A–599.
McGawran, Dennis. Two-actions on simply connected 6-manifolds, A–406.
McKenna, Peter A. Value distribution of generalized holomorphic and meromorphic functions on subsets of Riemann surfaces, A–492.
McKernan, George. Three results about universal Horn classes of functions of bounded argument rotation, A–159; The approximation of functions by algebraic polynomials, A–613.
McLauhlin, H. W. See Gillotte, Michael J.
McLaughlin, T. G. Degrees of unsolvability and strong forms of $\mathcal{A}^* \mathcal{A} \mathcal{A}$, A–91.
Miller, Kenneth S. Some multivariate complex distributions, A–382.
Miller, Maurice Hugh, Jr. Equivalence of connected and Darboux functions under closure, Preliminary report, A–347; Equivalence of almost continuous and Darboux functions under closure, Preliminary report, A–620.
Miller, Richard T. See Edwards, Robert D.
Miller, Sanford S. See Lewandowski, Zdeislaw.
Miller, Sanford S. and Mocanu, Petru T. The Hardy class of functions of bounded argument rotation, A–301; The $H^p$ classes for alpha-convex functions. II. Preliminary report, A–971.
Miller, Sanford S., Mocanu, Petru T. and Reade, Maxwell O. The Hardy classes for functions in the class $M^1([x], [y])$. Preliminary report, A–10.
Miller, Richard T. See Edwards, Robert D.
Miller, Sanford S. See Lewandowski, Zdeislaw.
Miller, Sanford S. and Mocanu, Petru T. The Hardy class of functions of bounded argument rotation, A–301; The $H^p$ classes for alpha-convex functions. II. Preliminary report, A–971.
Miller, Sanford S., Mocanu, Petru T. and READE, Maxwell O. The Hardy classes for functions in the class $M^1([x], [y])$. Preliminary report, A–10.
Miller, Richard T. See Edwards, Robert D.
Mills, E. O. Fourier transforms of odd and even tempered distributions, A–395.
---. See Carmichael, Richard D.
Mills, E. O. Fourier transforms of odd and even tempered distributions, A–395.
---. See Carmichael, Richard D.
Minda, Carl David. Rings of holomorphic and meromorphic functions on subsets of Riemann surfaces, A–492.
Mirsky, Norman D., Sario, Leo and Wang, Cecilia Y. Parabolicity and existence of bounded and Dirichlet finite polyharmonic functions, A–126.
Mohler, Lee. The fixed point property for homomorphisms of 1-arcwise connected continua, A–565.
---. See Carmichael, Richard D.
Mirsky, Norman D., Sario, Leo and Wang, Cecilia Y. Parabolicity and existence of bounded and Dirichlet finite polyharmonic functions, A–126.
Mislove, Michael W. See Hofmann, Karl H.
Misner, Robert W. See Mitchell, A. Richard and Mitchell, Roger W.
Mitchell, Barry M. Some applications of module theory to category families, A–32.
Mitchem, John A. Every planar graph is acyclically 8-colorable, A–2.
Miura, Robert M. See Gardner, Clifford S.<br>Mizei, Victor J. See Leitman, M. J.<br>Mocanu, Petru T. See Reade, Maxwell O.<br>Mocanu, Petru T. See Miller, Sanford S.
Mohler, Lee. The fixed point property for homomorphisms of 1-arcwise connected continua, A–565.
Molnar, Suzanne M. See Graves, William H.
Monroe, B. See Fatt, Brownian motion, A–237.


MOORE, Robert H. See NASHED, M. Zuhair.


MORRELL, Joseph S. and NAPIARZ, S. A. A note on generalized multiplicative functions, A-419.


MURLEY, Charles E. See ARNOLD, David M.


NAIMPALLY, S.A. See MAIR, Peter F.


NAPARSTEK, Abraham. See DeKLEINE, Herbert Arthur.

---. See SANPARRY, Gary.

NARAYAN, Jack. See STENGLE, Gilbert.


---. See ALLEN, Graham D.

NASHED, M. Z. See VOTRUBA, George F.


NASHED, M. Zuhair and VOTRUBA, George F. Transformations of generalized inverses under changes of projectors, A-337.

NASIM, Cyril. See GOEL, Devendra S.


NEEV, M. F. See CRUSE, Allan B.

---. See EVANS, Trevor.


NELSON, Evelyn. Semilattices do not have equationally compact hulls, A-600.


NEWMAN, Michael F. See ALFORD, William A.

NEWMAN, Morris and SHEINGORN, Mark E. Continuous solution of a homogeneous functional equation, A-153.

NEWMAN, Sagg. One-point compactifications of Q-manifold factors and infinite mapping cylinders. II. Preliminary report, A-508.

NICOLAS, Peter. Subgroups of the free topological group on {0,1}, A-503.


NICO, William R. Monoids acting on sets, A-100.

NICKEL, James A. See HALE, Douglas.


NOHEL, John A. See MILLER, Richard K.
NORDLAND, Thomas. See HAMILTON, Howard B.
NORRIS, Eugene M. Relative act ideals, A-444.
---. See BEDNAREK, A. R.
NUMMELA, Eric C. Projective abelian topological groups need not be free, A-107.
NUKNE, Ronald J. Uniquely elosing modules, A-98.
NUSBBAUM, A. Edward. Representation of functions in terms of spherical functions in symmetric spaces of non-compact type of rank 1, A-168.
O’BRIEN, Richard Christopher. See JAMISON, Robert E. II.
O’CONNELL, James R., Jr. See BEARD, Jacob T., Jr.
ODLYZKO, Andrew M. See MALLOWS, Colin L.
ODLIN, Robert C. Free products in the category of k-groups, A-192.
PARK, Chull and PARANJAPE, S. R. Distribution of the supremum of the Yeh-Wiener process on the boundary, A-236.
PAGE, Stanley S. \( \sigma \)-regular quotient rings of Noetherian rings. Preliminary report, A-76.
PARK, Bruce P. See BLEVINS, Donald K.
PARKER, David Lionel. Stable cohomotopy groups are modules over the mod-\( p \) Steenrod algebra. Preliminary report, A-405.
PAPP, Frank J. The functional equation \( f(xy) = f(x)f(y) \) for Gamma under a Bayesian influence, A-403.
O’Neill, Duane. Annihilators in a homological dimension of \( M(n, R) \), A-224.
ORDMAN, Edward T. Free products in the category of \( k \)-groups, A-192.
Orr, William F. The flock conjecture in finite egglike inverese planes, A-201.
---. See CARROLL, Carlton W.
OSTGOOD, Charles F. On the effective “diophantine approximation” of algebraic functions and applications to nonlinear differential equations, A-56.
OSTLER, Thomas J. An identity for simplifying certain generalized hypergeometric functions, A-128; Leibniz rule for fractional derivatives used to generalize formulas of Walker and Cauchy, A-386.
OSTERBURG, James. Completely outer groups of automorphisms acting on \( R/(R) \), A-436.
OTTMANN, Thomas A. \( \phi \)-symbol 2-state universal Turing machine with a twodimensional tape, A-594.
OUTCALT, David L. See CELIK, Hasan A.
OUTCALT, David L. and YAOUB, Adil M. On the structure of associative rings with a special ideal, A-76.
OXTOBY, John C. The kernel operation on subsets of a \( T_1 \)-space, A-215.
PÁDMANABHAN, R. A minimal self-dual equational basis for Boolean algebras, A-368.
---. See GRÄTZER, George A.
---. See LAKSER, H.
---. See MENDELSOHN, N.S.
PAGE, Stanley S. \( \sigma \)-regular quotient rings of Noetherian rings. Preliminary report, A-76.
PAGG, John J. See DOBBS, David E.
PAPP, Frank J. The functional equation \( f(xy) = f(x)f(y) \) in a partially ordered monoid. Preliminary report, A-490.
PARK, Chull and PARANJAPE, S. R. Distribution of the supremum of the Yeh-Wiener process on the boundary, A-236.
PARKER, David Lionel. Stable homotopy groups are compact shape invariant, A-223.
PARRISH, Brian J. See CLINE, Edward T.
PARK, Chull and PARANJAPE, S. R. Distribution of the supremum of the Yeh-Wiener process on the boundary, A-236.
PARKER, David Lionel. Stable homotopy groups are compact shape invariant, A-223.
PARKER, David Lionel. Stable homotopy groups are compact shape invariant, A-223.
PARSHALL, Brian J. See CLINE, Edward T.
PARKINSON, Torrence D. Ramsey graphs and block designs, Preliminary report, A-475.
PARTER, Seymour M. Differential equations with "turning points" and numerical methods, A-641.
PASTERNACK, Joel S. See LAZAROV, Connor.
PATEL, B. G. See GANDID, J. M.
PATHAK, P. K. See KOOPMANS, Lambert H.
PATHAK, R. S. See PANDEY, J. N.


ST, ANDRE, Richard J. See CHAFFER, Robert A.

STAPLIN, Russell. See ELKINS, John A.

STARBIRD, Michael P. The Borsuk homotopy extension theorem without the binormality condition, A-209.

---. See RUDIN, Mary Ellen.


STEFAN, P. See CHILLINGWORTH, D.R.J.

STEIGER, William L. See KANTER, Marek.

STEIN, James D., Jr., Uniqueness of norm in certain LP spaces, A-175.


STEIN, Solomon K. Free sets and the capacity of a cyclic graph, A-527.

STEINKERLING, Stanley Lee. Hyperbolic equations which are not necessarily strictly hyperbolic, A-18.

STEINBERG, Stuart A. See ARMENDARIZ, E.


STEINTHER, Dexter. See GUDDER, Stanley.


STUBBARO, M. V. See HARRIS, Vincent C.

STUBBAH, S. See MAGILL, Kenneth D., Jr.


SUBRAMANI, K. Two-norm spaces and quasi-reflexivity, A-188.

SUCHESTON, Louis. See BRUNEL, Antoine P.

---. See FONG, Humphrey S.


SUDBOURGH, I. Hal. See SPRINGSTEEL, F. N.


SULLIVAN, James. See KEENER, J. Patrick.


---. See GEOFFROY, Dennis P.


SWEET, Daniel. Periodic solutions for dynamical systems possessing a first integral in the resonance case, A-142.


SYMonds, Robin G. See JAIN, S.K.


---. See GEORGIOU, George. A characterization of Azumaya algebras, A-68.

TADE, E. See GOELDBERG, Moshe.


TAKEUTI, Gaisi. The axioms of choice and the infinitary

TALL, Franklin D. On the existence of nonmetrizable hereditarily Lindelof spaces with point-countable bases, A-327; Stalking the Sosulian tree—a topological guide, A-560. ---. See WEISS, W.A.R.

TALL, Franklin D. and WEISS, W.A.R. β N may or may not be Blumhagen. Preliminary report, A-597.


TAMURA, Takayuki. Recent study of N-semigroups, A-97.


TANINO, S. See BULMAN-FLEMING, S.


TAYLOR, B.A. See BERENSTEIN, Carlos A.

TAYLOR, G. D. See RACPOPOULOS, A. ---. See KAUFMAN, Edwin H., Jr.


TAYLOR, Peter D. See JAMISON, Robert E. II.


TERRELL, Chris P. and SMITH, T. L. On estimating the expected behavior of a stochastic epidemiological model applicable to small populations, A-345.


TING, Bing Y. See LÜKE, Yudell L.


TOBEY, Malcolm. See DONALD, John D.


TOUBASSI, Elias H. See KHAABBAZ, S.A.

TOWER, Jacob. Tangent bundles to affine quadric surfaces, A-69.


TRANEN, B. See KRONK, Hudson, V.E.


TRAPP, George. See ANDERSON, William.


TSOKOS, Chris P. and SMITH, T. L. On estimating the expected behavior of a stochastic epidemiological model applicable to small populations, A-345.


---. See HEEREMA, Nickolas.

TUCKER, Howard G. See HUDSON, William N.

TUCKER, Thomas W. See GROSS, Jonathan L.


TURNER, Edward C. Nilpotent diffeomorphism groups, A-182.


TURNER, Robert E. L. A nonlinear Krein Rutman theorem and applications, A-149.


TYMCZATYNY, Edward D. and FRIBERG, B. On a problem of Martin concerning strongly convex metrics, A-213.


UDEBELAKER, James W. Product graphs for given subgroups of the wreath product of two groups. II. Preliminary report, A-36.
type, A-170.

WEISS, Norman J. Multipliers and convergence for Fourier series on compact Lie groups, A-162.

WEISS, N.A. See NIELSON, Gregory Morris.


---. See TALL, Franklin D.


WENTE, Henry C. The Dirichlet problem with a volume constraint, A-201.


WHITE, Robert E. Multipliers of Bk and \( \mathcal{M}_k \) spaces and their applications to partial differential equations. Preliminary report, A-149.

WHITE, Robert E. \( R^n \) and \( \mathbb{R}^{\infty} \) spaces and their applications to partial differential equations. Preliminary report, A-149.

WHITFIELD, John H. M. See MAH, Peter F.


WHISKER, Paul A. See WELCH, J.R.

WHITAKER, Rick. See SHILLETO, J.R.

WHITEMAN, Albert Leon. Williamson type matrices of p;\( \mathbb{F} \) differJldtl:al spaces and their applications to multidimensional wave equation in the exterior of a straight strip, A-145.


WHITAKER, Rick. See WHITEMAN, Albert Leon.

WHITAKER, Rick. See MUCKENHOUPT, Benjamin.

WHITAKER, Rick. See WELCH, J.R.

WHITAKER, Rick. See NIELSON, Howard.

WHITAKER, Rick. See LEONARD, Philip A.

WHITAKER, Rick. See JOHNSON, Gerald W.

WHITAKER, Rick. See TALL, Franklin D.

WHITAKER, Rick. See PENROSE, Roger A.

WHITAKER, Rick. See MORRISON, David D.

WHITAKER, Rick. See LIPMAN, James.

WHITAKER, Rick. See LEONARD, Philip A.

WHITAKER, Rick. See PENROSE, Roger A.

WHITAKER, Rick. See MUCKENHOUPT, Benjamin.

WHITAKER, Rick. See JOHNSON, Gerald W.

WHITAKER, Rick. See TALL, Franklin D.

WHITAKER, Rick. See PENROSE, Roger A.

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WHITAKER, Rick. See JOHNSON, Gerald W.

WHITAKER, Rick. See PENROSE, Roger A.

WHITAKER, Rick. See MUCKENHOUPT, Benjamin.

WHITAKER, Rick. See LEONARD, Philip A.

WHITAKER, Rick. See PENROSE, Roger A.

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WHITAKER, Rick. See MUCKENHOUPT, Benjamin.

WHITAKER, Rick. See LEONARD, Philip A.

WHITAKER, Rick. See PENROSE, Roger A.

WHITAKER, Rick. See MUCKENHOUPT, Benjamin.
Some Comments on Three Resolutions, 78
Statement by the CCMJ Editorial Committee, 269
Submission of Manuscripts to the Proceedings of the AMS, 81
The Annual Meeting: Site Selection and Cost Control, 82
The Ph.D. Ancestry of the Leading U.S. Mathematics Faculties, 341
The Preservation of Archival Materials, 187
The Role of the Dissertation in the Ph.D. Program, 180
The Role of the Ph.D. in Two-Year College Training, 263

INTERNATIONAL CONGRESS OF MATHEMATICIANS, 73, 199

INVITED SPEAKERS AT AMS MEETINGS, 72, 116, 151, 178, 197, 253, 340

LETTERS TO THE EDITOR, 93, 118, 158, 222, 309, 357
Lipman Bers, 309
Chandler Davis et al., 158
Harry Goheen, 357
John W. Green, 93
Peter Henrici, 358
Robert Hermann, 222, 309
Judith Q. Longyear, 118
Saunders Mac Lane, 118, 359, 361
Hugh J. Miser, 310
Cathleen Morawetz, 362
Paul S. Mostert, 93
Anil Nerode, 360
Barbara M. Stauffer, 93
E. G. Straus, 223
Daniel H. Wagner, 359
Gail Young, 357
Leo Zippin, 223

MEETINGS OF THE AMS
Calendars of Meetings, inside front covers
Preliminary Announcements
March: Gainesville, Florida, 69
April: New York, New York, 69, 109
May: DeKalb, Illinois, 112, 147
October: Middletown, Connecticut, 179, 194
November: Nashville, Tennessee, 195, 238
Los Angeles, California, 196, 239
Houston, Texas, 197, 240
January: Washington, D.C., 241, 324

Programs of Meetings
January: San Francisco, California, 2
March: Gainesville, Florida, 100

April: New York, New York, 136
Santa Barbara, California, 144
May: DeKalb, Illinois, 172
October: Middletown, Connecticut, 236
November: Nashville, Tennessee, 312
Los Angeles, California, 318
Houston, Texas, 321

NEW AMS PUBLICATIONS, 95, 130, 163, 191, 224, 273, 350

NEWS ITEMS AND ANNOUNCEMENTS, 118, 134, 160, 164, 185, 189, 191, 198, 211, 219, 221, 223, 231, 265, 363

PERSONAL ITEMS, 97, 132, 165, 190, 230, 271, 364

QUERIES, 119, 159, 186, 220, 280


SALARY SURVEY, 255

SEMINARS AND INSTITUTES
Symposium on Some Mathematical Questions in Biology in San Francisco, 68, 105
Symposium on Category Theory Applied to Computation and Control in San Francisco, 107
1974 Summer Seminar in Applied Mathematics, 70, 114, 252
1974 Summer Research Institute on Algebraic Geometry, 114, 253
Symposium on Some Mathematical Questions in Biology, New York, 198, 251, 334
Symposium on Theory vs. Practice in the Finite Element Method, New York, 251, 334


SPECIAL MEETINGS INFORMATION CENTER, 90, 121, 161, 168, 218, 275, 355

SPECIAL SESSIONS, CHAIRMEN AND TOPICS, 72, 116, 151, 196, 250, 340

SUMMER GRADUATE COURSES, 127, 169

TAX STATUS OF GRANTS

VISITING MATHEMATICIANS, 281
(Supplementary List), 92, 126, 353
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