NOTICES
OF THE
AMERICAN
MATHEMATICAL
SOCIETY

CODEN: AMNOAN
Volume 19, Number 8
Pages 359—438, A-831—A-866

December 1972
Issue No. 142

SPECIAL ISSUE
ASSISTANTSHIPS AND FELLOWSHIPS
IN MATHEMATICS IN 1973-1974
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FOREWORD

The fourteenth Special Issue of the *Notices* contains a listing of assistantships and fellowships available in mathematics and related sciences for the academic year 1973–1974 for graduate study at universities and a listing of stipends available for travel and study. Indexes for abstracts and articles published in the *Notices* during 1972 and a short article on the tax status of grants are also included.

The listing for assistantships and fellowships at universities includes 481 departments of mathematics, applied mathematics, statistics, computer science, and related mathematical disciplines; those represent 345 colleges and universities. Institutions in the United States are listed alphabetically by state, followed by a listing of Canadian institutions.

Because in this year’s listing more universities and departments have been included on each page, it was necessary to abbreviate some of the terms.

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
ASSISTANTSHIPS AND FELLOWSHIPS
IN MATHEMATICS IN 1973-1974

I. FOR GRADUATE STUDY AT UNIVERSITIES

<table>
<thead>
<tr>
<th>TYPE of financial assistance</th>
<th>STIPEND amount in dollars</th>
<th>9 or 12 months</th>
<th>TUITION if not included in stipend (dollars)</th>
<th>SERVICE REQUIRED hours per week of service</th>
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<th>DEGREES AWARDED Academic year</th>
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**ALASKA**

**University of Alaska, Fairbanks 99701**

DEPARTMENT OF MATHEMATICS

Robert W. Brown, Head

Teaching Assistantship (5) 3600-4050 9 422 5 Tutorials

Applications due: 3/1/73

Bachelor's by inst. 300
Bachelor's by dept. 5
Master's by dept. 2

**ARIZONA**

**Arizona State University, Tempe 85281**

DEPARTMENT OF MATHEMATICS

Nevin Savage, Chairman

Fellowship (2) 2400-2800 12 160 6 Teaching

Teaching Assistantship (50) 2800-3500 9 900 9

Scholarship (3) 890

Applications due: 3/15/73

Bachelor's by inst. 3983
Bachelor's by dept. 59
Master's by dept. 16
A&NT 3, G&T 5, A&FA 4
Other 3
Total: 15

**Northern Arizona University, Flagstaff 86001**

DEPARTMENT OF MATHEMATICS

Richard D. Meyer, Chairman

Teaching Assistantship (5) 2250 9 152/sem. 13

Applications due: 4/1/73

Bachelor's by inst. 1150
Bachelor's by dept. 30
Master's by dept. 16

**University of Arizona, Tucson 85721**

DEPARTMENT OF MATHEMATICS

H. Rund, Head

Teaching Assistantship (35) 3250-3750 9 6 Teaching

Applications due: 3/15/73

Bachelor's by inst. 2874
Bachelor's by dept. 51
Master's by dept. 8
A&NT 2, G&T 2, A&FA 5,
P&S 3, AM 3
Total: 15

**ARKANSAS**

**Arkansas State University, State University 72467**

DIVISION OF MATHEMATICS AND PHYSICS

J. L. Linmstaedter, Chairman

Teaching Assistantship (6) 3075 12 374-580

Applications due: 3/30/73

Bachelor's by inst. 1048
Bachelor's by dept. 29
Master's by dept. 7

**State College of Arkansas, Conway 72032**

DEPARTMENT OF MATHEMATICS

Frank M. Hudson, Chairman

Teaching Assistantship (3) 1800 9 6

Applications due: 2/1/73

Bachelor's by inst. 410
Bachelor's by dept. 24
Master's by dept. 7

**University of Arkansas, Fayetteville 72701**

DEPARTMENT OF MATHEMATICS AND STATISTICS

James E. Scroggs, Chairman

Teaching Assistantship (32) 1350-3000 9 20/sem. hr. 6 sem. hr. Teaching

Applications due: 2/15/73

Bachelor's by inst. 1690
Bachelor's by dept. 25
Master's by dept. 29
A&NT 1, G&T 1, A&FA 2
Total: 4

362
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<td>(with number anticipated 1973-1974)</td>
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**CALIFORNIA**

**California Institute of Technology, Pasadena 91109**

DEPARTMENT OF MATHEMATICS  
W. A. J. Luxemburg, Executive Officer  
Applications due: 2/15/73

| Fellowship (3) | 2400-3600 | 12 | 4 class hrs. |
| Teaching Fellowship (6) | 3400-4600 | 12 | 4 class hrs. |
| Teaching Assistantship (13) | 2539-3390 | 9 | 15 Academic yr. |
| Research Assistantship (3) | 3442-4779 | 12 | 30 Summer |

Scholarship  
2330

Applications due: 2/15/73

Bachelor's by inst. 143  
Bachelor's by dept. 20  
Master's by dept. 3  
ABET 8, A&FA 4, AM 1.  
Total: 13

**California State Polytechnic University, Pomona 91768**

DEPARTMENT OF MATHEMATICS  
Sidney Birnbaum, Chairman  
Applications due: 2/15/73

| Teaching Assistantship (4) | 1800-3600 | 9 | 50/qtr. | 3-6 | Teaching |

Applications due: 5/1/73

Bachelor's by inst. 1660  
Bachelor's by dept. 50

**California State University, Fullerton 92634**

DEPARTMENT OF MATHEMATICS  
Edsel F. Stiel, Chairman  
Applications due: 5/1/73

| Teaching Assistantship (3-4) | 1912.80 | 9 | 70/sem. | 3 |

Applications due: 7/15/73

Bachelor's by inst. 9643  
Bachelor's by dept. 25  
Master's by dept. 5

**California State University, Hayward 94542**

DEPARTMENT OF STATISTICS  
Bruce E. Trumbo, Chairman  
Applications due: 7/15/73

| Teaching Assistantship (10) | 1500-2500 | 9 | 12-25 |
| Reader (2) | 500-800 | 9 | 10 |

Applications due: 5/1/73

Bachelor's by inst. 4505  
Bachelor's by dept. 101  
Master's by dept. 15

**California State University, Long Beach 90804**

DEPARTMENT OF MATHEMATICS  
Charles W. Austin, Chairman  
Applications due: 5/1/73

| Teaching Assistantship (8) | 2624-3920 | 9 | 5-7 | Teaching |

Applications due: 3/15/73

Bachelor's by inst. 3475  
Bachelor's by dept. 75  
Master's by dept. 10

*Fees are $82 per semester, plus nonresident tuition of $37 per semester-unit.

**California State University, Los Angeles 90032**

DEPARTMENT OF MATHEMATICS  
Charles L. Clark, Chairman  
Applications due: 5/1/73

| Teaching Assistantship (10) | 2099-3460 | 9 | 165* | 4-6 units/wk. |

Applications due: 3/15/73

Bachelor's by inst. 2226  
Bachelor's by dept. 106  
Master's by dept. 37

*Fees are $25/unit for nonresidents.

**California State University, Sacramento 95819**

DEPARTMENT OF MATHEMATICS AND STATISTICS  
M. Richard Porter, Chairman  
Applications due: 5/1/73

| Teaching Assistantship (6) | 3638-4008 | 9 | 6 | Teaching |
| Graduate Assistantship (2) | 2400 | 9 | 20 |

Applications due: 2/15/73

Bachelor's by inst. 2471  
Bachelor's by dept. 42

**California State University, San Diego 92115**

DEPARTMENT OF MATHEMATICS  
Peter W. Shaw, Chairman  
Applications due: 3/15/73

| Teaching Assistantship (20) | 7872-8652 | 9 | 80/sem. | 6 | Teaching |

Applications due: 5/1/73

Bachelor's by inst. 2226  
Bachelor's by dept. 106  
Master's by dept. 37
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<td>200-400</td>
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<td>Immediate Graduate Education Program (IGEP) open to newly commissioned officers,</td>
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The Claremont Colleges

The doctoral program in mathematics at the Claremont Graduate School was started in 1968, with the help of an NSF Departmental Development Grant. It is expected that a number of fellowships will be available for 1973-74. The Graduate School offers the Ph.D. in 14 fields and the M.A. in 23 fields. Claremont Men's College, Harvey Mudd College, Pitzer College, Pomona College, and Scripps College have long been known for the quality of their faculties and graduates. The following members of the Graduate Faculty in Mathematics (C.G.S. mathematicians and most of those at the other Claremont Colleges) are grouped by major fields of interest, with the institution of their Ph.D. indicated.


For application blanks and a booklet of information, write to:

Professor William LeVeque

CLAREMONT GRADUATE SCHOOL
Claremont, California 91711
Stanford University, Stanford 94305

DEPARTMENT OF MATHEMATICS
Ralph Phillips, Chairman
Applications due: 1/15/73
Graduate Assistantship (40)* 2400–2690 9** ***
*Graduate Assistants serve for one quarter as Teaching Fellows, for one quarter as Course Assistants and for one quarter as Research Assistants.
**In some cases additional stipends of $533 are available for study in the summer quarter.
***3 hrs. per week teaching or assisting for two quarters; one quarter research with no formal duties.

DEPARTMENT OF COMPUTER SCIENCE
John G. Herriot, Acting Chairman
Fellowship (1) 3000 12
Teaching Fellowship (1) 3150 9
Teaching Assistantship (8) 2835–3060 9
Research Assistantship (40) 2835–3195 9

DEPARTMENT OF OPERATIONS RESEARCH
Gerald J. Lieberman, Chairman
Fellowship (10) 1800* 9
Research Assistantship (20) 2400 9

DEPARTMENT OF STATISTICS
Herman Chernoff, Chairman
Fellowship (3) 2520 9
Research Assistantship (11) 2520 9
Traineeship (8) 2520 9

University of California, Berkeley 94720

DEPARTMENT OF MATHEMATICS
P. E. Thomas, Chairman
Applications due: 1/15/73
Fellowship (75) 2000–2700** 9 335–2198***
Teaching Assistantship (85) 3789–3894 9
Research Assistantship (24) 3015 9
*December 1, 1972 for Fellowships; February 1, 1973 for Assistantships.
**Some fellowships carry additional dependency allowances.
***Some fellowships pay only part of fees; total fees paid by most.

DEPARTMENT OF BIOSTATISTICS
Chin Long Chiang, Chairman
Fellowship (1) 2400–2800 12
Teaching Assistantship (2) 3789 9
Research Assistantship (4) 4020
Reader (2) 2.99/hr. 9

DEPARTMENT OF COMPUTER SCIENCE
Martin Graham, Chairman
Teaching Assistantship (8) 3789 9 720
Research Assistantship (20) 4020 12

GROUP IN LOGIC AND METHODOLOGY OF SCIENCE
Jack Silver, Chairman
Teaching Assistantship (4)
Research Assistantship (1)

*December 1, 1972 with the Graduate Division. Applications for teaching assistantships must be filed by February 1, 1973 with the Department of Mathematics.
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<td>E. L. Scott, Chairman</td>
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**University of California, San Diego, La Jolla 92037**

DEPARTMENT OF MATHEMATICS  
Applications due: 2/1/73  
Jacob Korevaar, Chairman

| Fellowship (3) | 1800-3000 | 9-12 | 1/2 time | Teaching** | Ph. D. (1969-1971 incl.) |
| Research Assistantship (5) | 4020 | 11 | 1/2 time | A&NT 1, G&T 1, A&FA 11, P&S 3, CS 1, AM 1, Other 1. Total: 19 |
| Scholarship (10) | | | | Partial fees and/or Tuition |

*In 1972-73 all graduate students (resident and nonresident) pay per quarter: $226  
(Registration Fee $100; Educational Fee $120; Student Center Fee $6). Nonresident graduate students pay per quarter: $500 Tuition in addition to the above $226.  
**A number of the appointments are 1/4 time.

**University of California, Santa Barbara 93106**

DEPARTMENT OF MATHEMATICS  
Applications due: 1/15/73  
David A. Sprecher, Chairman

| Fellowship (3) | 2200-2500 | 9 | * | 6 | Teaching | A&NT 12, A&FA 11, CS 1. Total: 24 |
| Research Assistantship | 4020 | 11 | * |
| Community Teaching Fellowship (4) | 3789 | 9 | 6 | Teaching |

*$1,500 for out-of-state students.

**University of California, Santa Cruz 95060**

DEPARTMENT OF MATHEMATICS  
Applications due: 2/1/73  
Gerhard Ringel, Chairman

| Fellowship (4) | 2200 | 9 | 40 |
| Teaching Assistantship (10) | 3636 | 9 | 40 |
| Tuition Waivers (6) | 1500 | 9 |

**University of Southern California, Los Angeles 90007**

DEPARTMENT OF MATHEMATICS  
Applications due: 6/73  
H. A. Antosiewicz, Chairman

| Fellowship (4) | 2400-2800 | 12 |
| Teaching Assistantship (32) | 3000-3400 | 9 | 6 Units | Teaching |
| Teaching/Research (10) | 3000-3400 | 9 | 4 Units | Teaching, Research |

Total: 26

**COLORADO**

**Colorado State University, Fort Collins 80521**

MATHEMATICS SECTION  
Applications due: 3/15/73  
E. R. Deal, Chairman

| Fellowship (1) | 2400-3600 | 12 |
| Teaching Assistantship (30) | 2400-3600 | 9 | 15 | Teaching |
| Research Assistantship (2) | 2400-4200 | 9-12 | 20 | Research |
| Scholarship (4) | | | | Tuition waiver |

**COLORADO STATE UNIVERSITY**

GRADUATE STUDY IN MATHEMATICS


DEGREES: Ph.D.; M.S. programs in pure math. or in math. with outside specializations; M.A.T.


FINANCIAL AID: GTA at $2400-$3600 (GTA's pay only $63 per quarter for tuition and fees).

FACILITIES: Offices, Library, and computer (CDC 6400) readily available.

APPLY TO:

Dr. F. M. Stein  
Mathematics Section  
COLORADO STATE UNIVERSITY  
Fort Collins, Colorado 80521

An equal opportunity employer

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<table>
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<td>9 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</td>
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### University of Colorado, Boulder 80302

**DEPARTMENT OF MATHEMATICS**
Wolfgang J. Thron, Chairman

- **Fellowship (11)**: 680-3180, 12 months
- **Teaching Assistantship (60)**: 2800, 9 hours
- **Research Assistantship (2)**: 379, 9 months

Applications due: 2/1/73
Bachelor's by inst. 3768
Bachelor's by dept. 49
A&NT, G&T, A&FA, P&S, Total: 15

### University of Colorado, Denver Center, Denver 80203

**DIVISION OF NATURAL SCIENCES**
Collin Hightower, Discipline Representative

- **Teaching Assistantship (7)**: 2800, 9 months

Applications due: 3/1/73
Bachelor's by inst. 1336
Bachelor's by dept. 14
A&NT, CS, AM, Total: 3

### University of Denver, Denver 80210

**DEPARTMENT OF MATHEMATICS**
H. Greenberg, Chairman

- **Teaching Assistantship (12)**: 2500-2900, 9 months
- **Research Assistantship (3)**: 3800-4400, 12 months
- **Scholarship (3)**: 1250-2500, 2500

Applications due: 3/1/73
Bachelor's by inst. 1336
Bachelor's by dept. 2
A&NT, CS, AM, Total: 3

### Western State College, Gunnison 81230

**DIVISION OF NATURAL SCIENCE & MATHEMATICS**
William E. Dorgan, Chairman

- **Teaching Assistantship (2)**: 2500, 9 months

Applications due: 3/15/73
Bachelor's by inst. 452
Bachelor's by dept. 15
A&NT, CS, AM, Total: 3

### Central Connecticut State College, New Britain 06050

**DIVISION OF MATHEMATICS**
Richard L. Mentzer, Director

- **Teaching Assistantship (2)**: 2000, 9 months

Applications due: 6/1/73
Bachelor's by inst. 766
Bachelor's by dept. 84
Master's by dept. 27

### University of Bridgeport, Bridgeport 06602

**DEPARTMENT OF MATHEMATICS**
H. Margaret Elliott, Chairman

- **Teaching Assistantship (1)**: 900, 9 months

Applications due: 4/1/73
Bachelor's by inst. 935
Bachelor's by dept. 22
Master's by dept. 2

### University of Connecticut, Storrs 06268

**DEPARTMENT OF MATHEMATICS**
E. S. Wolk, Head

- **Fellowship (4)**: 2400-3000, 9 months
- **Teaching Fellowship (10)**: 3150-4000
- **Teaching Assistantship (14)**: 3150-4000

Applications due: 4/1/73
Bachelor's by inst. 2954
Bachelor's by dept. 48
Master's by dept. 10
A&NT, G&T, A&FA, Total: 3

*Includes general university fee, $1140 including fee for out-of-state students.

**An increase in this stipend is expected in 1973-74.
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*Includes general university fee; $1140 for out-of-state students.

University of Hartford, West Hartford 06117

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Wesleyan University, Middletown 06457

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<td>Teaching Assistantship (14)</td>
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*Dependency allowances and summer stipends are frequently available upon request.

Yale University, New Haven 06520

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<td>Research Assistantship (10)</td>
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DEPARTMENT OF COMPUTER SCIENCE

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DEPARTMENT OF ENGINEERING AND APPLIED SCIENCE

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*This figure does not include the tuition, but the fellowship does.

DEPARTMENT OF STATISTICS

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University of Delaware, Newark 19711

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DELAWARE

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<td>Bachelor's by inst. 962</td>
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<td>Bachelor's by dept. 29</td>
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<td>Bachelor's by inst. 1856</td>
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<td>Bachelor's by dept. 25</td>
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<td>Master's by dept. 17</td>
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<td>Bachelor's by inst. 1856</td>
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<td>Master's by dept. 17</td>
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## DISTRICT OF COLUMBIA

### American University, Washington 20016

**DEPARTMENT OF MATHEMATICS AND STATISTICS**

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**Applications due: 3/1/73**

Bachelor's by inst. 794
Bachelor's by dept. 15
Master's by dept. 7

**DISTRICT OF COLUMBIA**

### Catholic University of America, Washington 20017

**DEPARTMENT OF MATHEMATICS**

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<td>9</td>
<td>1150</td>
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**Applications due: 2/15/73**

Bachelor's by inst. 490
Bachelor's by dept. 10
Master's by dept. 20

**DISTRICT OF COLUMBIA**

### Catholic University of America, Washington 20007

**DEPARTMENT OF MATHEMATICS**

<table>
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<tr>
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<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tr>
<td>Teaching Fellowship (6)</td>
<td>2600-3000</td>
<td>9</td>
<td>2300 3 Teaching</td>
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**Applications due: 2/15/73**

Bachelor's by inst. 383
Bachelor's by dept. 10
Master's by dept. 6

**Academic Computation Center**

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<td>Fellowship (3)</td>
<td>2350-2600</td>
<td>9</td>
<td>12 Assistant in Research</td>
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**Applications due: 3/15/73**

*Fellowships in the Computation Center are awarded to candidates for the Ph.D. in other departments. For example, during the current year the holders of the three fellowships are candidates for a degree in history, government, and linguistics. Fellowships are awarded by the graduate school.

**DISTRICT OF COLUMBIA**

### George Washington University, Washington 20006

**DEPARTMENT OF MATHEMATICS**

<table>
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<th>Type</th>
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<th>Degrees Awarded</th>
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<td>Teaching Fellowship (6)</td>
<td>2800</td>
<td>9 *</td>
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<tr>
<td>Scholarship (1)</td>
<td></td>
<td>9</td>
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**Applications due: 3/15/73**

Bachelor's by inst. 876
Bachelor's by dept. 8
Master's by dept. 20

**DISTRICT OF COLUMBIA**

### Howard University, Washington 20001

**DEPARTMENT OF MATHEMATICS**

<table>
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<th>Type</th>
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<td>Graduate Assistantship (9)</td>
<td>4043</td>
<td>9</td>
<td>521.50/sem. 15 Tutoring, grading</td>
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**Applications due: 4/1/73**

Bachelor's by dept. 12
Master's by dept. 7

**FLORIDA**

### Florida Atlantic University, Boca Raton 33432

**DEPARTMENT OF MATHEMATICS**

<table>
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<td>Fellowship (1)</td>
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<tr>
<td>Teaching Assistantship (5)</td>
<td>2000-3000</td>
<td>9</td>
<td>175/qtr. 12 Teaching &amp; Grading</td>
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**Applications due: 4/1/73**

Bachelor's by inst. 1771
Bachelor's by dept. 19
Master's by dept. 2

*Late applications will be accepted.

**Florida Institute of Technology, Melbourne 32901**

**DEPARTMENT OF MATHEMATICAL SCIENCES**

<table>
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<td>Teaching Assistantship (10)</td>
<td>2400</td>
<td>9</td>
<td>6-7 Teaching</td>
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**Applications due: 3/15/73**

Bachelor's by inst. 290
Bachelor's by dept. 41
Master's by dept. 12

370
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<td>amount in dollars</td>
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<td>Florida State University, Tallahassee 32306</td>
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<td>DEPARTMENT OF MATHEMATICS</td>
<td>Applications due: 2/1/73</td>
<td>Bachelor's by inst. 2999</td>
<td>Bachelor's by dept. 54</td>
<td>Master's by dept. 12</td>
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<td>*Plus $350 nonresident tuition unless waived.</td>
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<td>DEPARTMENT OF STATISTICS</td>
<td>Applications due: 2/1/73</td>
<td>Bachelor's by inst. 2999</td>
<td>Bachelor's by dept. 3</td>
<td>Master's by dept. 7</td>
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<tr>
<td>Ralph A. Bradley, Head</td>
<td>Fellowship (8)</td>
<td>2400–2800*</td>
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<tr>
<td></td>
<td>Teaching Assistantship (10)</td>
<td>3600</td>
<td>12</td>
<td>240/qtr.</td>
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<td>Research Assistantship (11)</td>
<td>3600</td>
<td>12</td>
<td>240/qtr.</td>
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<tr>
<td></td>
<td>Consulting and Computing (3)</td>
<td>3600–4200</td>
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<td>240/qtr.</td>
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<td>*Plus allowance for dependents.</td>
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<tr>
<td>University of Florida, Gainesville 32601</td>
<td>Applications due: 3/15/73</td>
<td>Bachelor's by inst. 2387</td>
<td>Bachelor's by dept. 39</td>
<td>Master's by dept. 8</td>
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<tr>
<td>William Mendenhall, III, Chairman</td>
<td>Fellowship (2)</td>
<td>2800–3500</td>
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<td>240/qtr.</td>
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<td>Research Assistantship (6)</td>
<td>2800–3500</td>
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<td>240/qtr.</td>
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<td>University of Miami, Coral Gables 33124</td>
<td>Applications due: 4/1/73</td>
<td>Bachelor's by inst. 2387</td>
<td>Bachelor's by dept. 39</td>
<td>Master's by dept. 8</td>
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<tr>
<td>David Hertzig, Chairman</td>
<td>Fellowship (5)</td>
<td>200/mo. -</td>
<td>270/mo.</td>
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<td>Teaching Assistantship (28)</td>
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<td>DEPARTMENT OF MANAGEMENT SCIENCE</td>
<td>Applications due: 3/15/73</td>
<td>Bachelor's by dept. 20</td>
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<td>Malcolm Golden, Chairman</td>
<td>Teaching Assistantship (4)</td>
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<td>Research Assistantship (2)</td>
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<tr>
<td>University of South Florida, Tampa 33620</td>
<td>Applications due: 4/30/73</td>
<td>Bachelor's by inst. 3255</td>
<td>Bachelor's by dept. 35</td>
<td>Master's by dept. 7</td>
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<tr>
<td>Fredric Zerla, Acting Chairman</td>
<td>Fellowship (26)</td>
<td>3200–3600</td>
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<tr>
<td>University of West Florida, Pensacola 32504</td>
<td>Applications due: 3/15/73</td>
<td>Bachelor's by inst. 1300</td>
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<td>R. E. Lee, Acting Chairman</td>
<td>Fellowship (4)</td>
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**GEORGIA**

| Emory University, Atlanta 30322 | Applications due: 2/15/73 | Bachelor's by inst. 494 | Bachelor's by dept. 29 | Master's by dept. 4 |
| Henry Sharp, Jr., Chairman | Teaching Assistantship (11) | 2400 | 9 | 240 | 6 | Teaching | A&NT 2, G&T 3, A&FA 4. Total: 9 |
| | Part-time Teaching Assistantship (4) | 1500 | 9 | 240 | 6 | Teaching | |
| Georgia Institute of Technology, Atlanta 30332 | Applications due: 3/1/73 | Bachelor's by inst. 1355 | Bachelor's by dept. 32 | Master's by dept. 8 |
| John D. Neff, Director | Teaching Assistantship (35) | 2700–4950 | 9 | 534 | 5-10 | Teaching | G&T 2, A&FA 4, AM 3, Other 2. Total: 11 |

371
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<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
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<tr>
<td>DEPARTMENT OF INFORMATION AND COMPUTER SCIENCE</td>
<td>Applications due: 3/15/73</td>
<td>Bachelor's by inst. 1355</td>
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<td>Vladimir Slamecka, Director</td>
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<td>Master's by dept. 67</td>
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<td>Teaching Assistantship (8)</td>
<td>2800-3666</td>
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<td>Teaching</td>
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<tr>
<td>Research Assistantship (10)</td>
<td>2800-3666</td>
<td>12</td>
<td>178/qtr.</td>
<td>Research</td>
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<tr>
<td>Traineeship in Biomedical Information and Computer Science (10)</td>
<td>2400-2600</td>
<td>12</td>
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**Georgia Southern College, Statesboro 30458**

DEPARTMENT OF MATHEMATICS

Applications due: 4/73

D. Earl Lavender, Head

Teaching Assistantship (5) 2100 9 125/qtr. 5

Georgia State University, Atlanta 30303

Applications due: 4/15/73

Jan List Boal, Chairman

Graduate Assistantship (3) 1800 9 9.75/qtr. hr. 15 Tutorials, grading

DEPARTMENT OF INFORMATION SYSTEMS

Applications due: 3/15/73

William W. Cotterman, Chairman

Teaching Assistantship (2) 2400 9 5 hr. course Teaching

Research Assistantship (3) 2100 9 15 Research

University of Georgia, Athens 30601

Applications due: 2/15/73

J. G. Horne, Head

Teaching Assistantship (15) 2600-3733 9-12 173 5 hrs. Teaching

Research Assistantship (10-15) 2600-3733 9-12 173 10 Duties vary

DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE

Applications due: 2/15/73

Carl F. Kossack, Head

Fellowship (1) 2000-3000 9 12

Teaching Fellowship (1) 2600-2800 9 5

Teaching Assistantship (6) 2600-2800 9 11 Assistant to Professor

Research Assistantship (10) 2600-2800 9 11 Research

Valdosta State College, Valdosta 31601

Applications due: 4/15/73

D. L. Duncan, Head

Service (1) 1800 9 5 Varies

West Georgia College, Carrollton 30117

Applications due: 4/1/73

C. R. Pittman, Head

Teaching Assistantship (4) 2000 9 9.75/qtr. hr. 5-15 Duties vary

University of Hawaii, Honolulu 96822

Applications due: 2/1/73

H. S. Bear, Chairman

Teaching Assistantship (12) 3708-4308 9 20 Teaching

BIOSSTATISTICAL SECTION, SCHOOL OF PUBLIC HEALTH

Applications due: 3/1/73

C. S. Chung, Chairman

Fellowship (8) 200-250 12 6

Teaching Assistantship (1) 400 9

HAWAII

Bachelor's by inst. 822

Bachelor's by dept. 18

Master's by dept. 1
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<td>DEPARTMENT OF INFORMATION AND COMPUTER SCIENCES</td>
<td>Applications due: 2/1/73</td>
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<td>Richard H. Jones, Chairman</td>
<td>Teaching Assistantship (2)</td>
<td>3708-4008</td>
<td>9</td>
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<td>Research Assistantship (8)</td>
<td>3402-3672</td>
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<td>20</td>
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<td>Idaho State University, Pocatello 83201</td>
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<td>Teaching Assistantship (4)</td>
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<td>Howard E. Campbell, Chairman</td>
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<td>Ph. D. (1969-1971 incl.)</td>
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<td>Applications due: 3/1/73</td>
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<td>Bradley University, Peoria 61606</td>
<td>DEPARTMENT OF COMPUTER SCIENCE</td>
<td>Herbert A. Morris, Chairman</td>
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<td>Teaching Assistantship (2)</td>
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</table>
DePaul University, Chicago 60614

DEPARTMENT OF MATHEMATICS
Jerry Goldman, Chairman

Teaching Assistantship (4) 2200 9 10

Eastern Illinois University, Charleston 61920

DEPARTMENT OF MATHEMATICS
Alphonso J. DiPietro, Head

Teaching Assistantship (8) 2700-5400 9 4-8 Tutoring
Graduate Assistantship (5) 1890 9 10 Computer Programming, Library

Illinois Institute of Technology, Chicago 60616

DEPARTMENT OF MATHEMATICS
Haim Reingold, Chairman

Fellowship (5) 2400-3600 12 6
Teaching Assistantship (30) 2200-2800 9 20 Class Assistant

DEPARTMENT OF COMPUTER SCIENCE
Robert G. Tobey, Chairman

Fellowship (2) 2400 9
Teaching Assistantship (16) 2100-2400 9
NSF (10)* 4000 9

*Part-time.

Illinois State University, Normal 61761

DEPARTMENT OF MATHEMATICS
R. K. Ritt, Chairman

Teaching Assistantship (10) 240 9 12-15

Loyola University, Chicago 60626

DEPARTMENT OF MATHEMATICS
J. Richard Vandevelde, Chairman

Teaching Assistantship (5) 2200 9 3-4 Teaching

Northern Illinois University, DeKalb 60115

DEPARTMENT OF MATHEMATICAL SCIENCES
John L. Selfridge, Chairman

Teaching Assistantship (35) 2520-3060 9 12 Teaching
Research Assistantship (2) 2520-3060 9 12 Research
Summer Assistantship (30) 560 2 6

*May 1, 1973 for summer.

Northwestern University, Evanston 60201

DEPARTMENT OF MATHEMATICS
Mark Mahowald, Chairman

Fellowship (10) 2300-2400 9 12

COMMITTEE ON APPLIED MATHEMATICS
W. E. Olmstead, Chairman

Fellowship (5) 3000-3300 12
Teaching Assistantship (2) 3500 9
Research Assistantship (3) 2475-3600 9-12

374
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**DEPARTMENT OF COMPUTER SCIENCES**

| Fellowship (12) | 2880-4600 | 12 | 2755 | Teaching | Bachelor's by dept. 3 | Master's by dept. 8 | Ph. D. (1969-1971 incl.) | CS 5. Total: 5 |
| Research Assistantship (12) | 3900-3660 | 12 | 2755 | Research | 20 |
| Scholarship (2) | | | 2595 | |
| Traineeships (2) | 2880-4560 | 12 | 2755 | |

**Southern Illinois University, Carbondale 62901**

| DEPARTMENT OF MATHEMATICS | Applications due: 2/1/73 | Bachelor's by inst. 4700 | Bachelor's by dept. 82 | Master's by dept. 20 | Ph. D. (1969-1971 incl.) | A&NT 2, G&T 1, A&FA 1, Other 4. Total: 8 |
| Fellowship (4) | 3060-3300 | 12 | 26-34** | Teaching |
| Teaching Assistantship (35) | 2610-3150 | 9 | 26-34** | |
| Scholarships (5) | | | 2755 | |
| Scholarships (5)** | 2100 | 9 | 26-34** | |
| Fellowships (2) | 3060-3300 | 12 | 26-34** | |
| Teaching Assistantships (10) | 2610-3150 | 9 | 26-34** | |

**Southern Illinois University-Edwardsville 62025**

| DEPARTMENT OF MATHEMATICAL STUDIES | Applications due: Open | Bachelor's by inst. 1705 | Bachelor's by dept. 60 | Master's by dept. 16 | Ph. D. (1969-1971 incl.) | A&NT 20, G&T 12, A&FA 13, P&S 1, CS 1, AM 1. Total: 48 |
| Fellowship (25) | 3060-3240 | 9 | 20 | Teaching |
| Research Assistantship (2) | 2250-2700 | 9 | |

**University of Chicago, Chicago 60637**

| Felix E. Browder, Chairman | Fellowship (10) | 1800 | 9 | 2775 | |
| Research Assistantship (7) | 2100 | 9 | 1275 | |
| Scholarship (5) | | | 2755 | |
| Tutorships (9)** | 2100 | 9 | |
| Lecturer (12)*** | 3600 | 9 | |

**University of Illinois at Chicago Circle, Chicago 60680**

| Joseph Landin, Head | Fellowship (4) | 2000-3500 | 9-12 | 500/qtr. | 5-10 Research |
| Research Assistantship (80) | 3150 | 9 | 5-10 Teaching |
| Research Assistantship (2) | 3000 | 12 | |
| Scholarships (4) | | | |

*February 1, 1973 Fellowships; August 15, 1973 Assistantships.
University of Illinois at Urbana-Champaign, Urbana 61801

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<td>P. T. Bateman, Head</td>
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<td>Bachelor's by dept. 200</td>
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<td>Master's by dept. 126</td>
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<td>Research Assistantship (4)</td>
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<td>AM 15. Total: 84</td>
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<td>Academic Year Institute (17)</td>
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*Late assistantship applications may be considered.

DEPARTMENT OF COMPUTER SCIENCE

Applications due:* Bachelor's by inst. 5689

J. N. Snyder, Head

Fellowship (4) 2480-2800 12
Teaching Assistantship (30) 3030-3230 9 20 Teaching Ph. D. (1969-1971 incl.)
Research Assistantship (65) 3030-4750 12 20 Research CS 17. Total: 17
Tuition and Fee Waiver (3) 400-2000 9

*December 1, 1972 for Spring; February 15, 1973 for Summer and Fall.

Western Illinois University, Macomb 61455

DEPARTMENT OF MATHEMATICS

Applications due: 4/1/73 Bachelor's by inst. 2221

A. Jerry Shryock, Chairman

Fellowship (2) * 12
Teaching Assistantship (12) 2610 9 6 Teaching

*At the present time the dollar amounts are not available.

INDIANA

Ball State University, Muncie 47306

DEPARTMENT OF MATHEMATICAL SCIENCES

Applications due: 4/1/73 Bachelor's by inst. 1885

John H. Hoelzer, Chairman

Teaching Assistantship (18) 2700 9 378 5 Teaching Bachelor's by dept. 76

Indiana State University, Terre Haute 47809

DEPARTMENT OF MATHEMATICS, STATISTICS AND COMPUTER SCIENCE

Applications due: 3/1/73 Bachelor's by inst. 2583

Vesper D. Moore, Chairman

Teaching Assistantship (12) 1800-2200 9 9/sem. hr. 20 Bachelor's by dept. 65

Indiana University, Bloomington 47401

DEPARTMENT OF MATHEMATICS

Applications due: 2/15/73 Bachelor's by inst. 7000

William P. Ziemer, Chairman

Fellowship (1) 3000 12 *
Teaching Fellowship (3) 3800-4000 12 ** 3 Teaching Ph. D. (1969-1971 incl.)
Teaching Assistantship (35)** 3000-3600 9 # 5-6 Teaching A&NT 12, G&T 4, A&FA 9,
Research Assistantship (1) 3000-3200 12 # 20 Research P&S 1, CS 1, AM 3,
Summer Fellowships (16) 500 8 wks. ** Other 4. Total: 34

*Provides exemption from all fees.
**Provides for payment of fees at rate for residents of Indiana.
***Number available for new students.
#May be accompanied by a tuition scholarship which pays all but $73 for usual course load.
##Participation in a seminar to provide insight into teaching undergraduate mathematics.

DEPARTMENT OF COMPUTER SCIENCE

Applications due: 3/1/73 Bachelor's by inst. 7000

Franklin Prosser, Chairman

Fellowship (2) 2300 9 *
Teaching Assistantship (17) 2900-3000 9 146** 20 Teaching
Research Assistantship (3) 3000 9 146** 20 Research

*$27 per credit hour for residents; $62 per credit hour for nonresidents.
**If, as usually is the case, fee remission is also granted.

376
University of Notre Dame, Notre Dame 46556

DEPARTMENT OF MATHEMATICS
John E. Derwent, Chairman

Applications due: 2/15/73
Bachelor's by inst. 1391
Bachelor's by dept. 25
Master's by dept. 26
A&NT 18, G&T 7, L 6, A&FA 3, CS 1. Total: 35

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

TYPE
Fellowship (12) 2700-4000 9-12 4 Teaching Ph. D. (1969-1971 incl.)
Teaching Assistantship (33) 2700-3000 9

Purdue University, Lafayette 47907

DEPARTMENT OF MATHEMATICS
Meyer Jerison, Chairman

Applications due: *
Bachelor's by inst. 4197
Bachelor's by dept. 38
Master's by dept. 52
A&NT 2, L 1, A&FA 19, AM 5. Total: 27

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Fellowship (8) 3600-4000 12
Teaching Assistantship (115) 3000-3600 10 120 6 Teaching Ph. D. (1969-1971 incl.)
Research Assistantship (7) 2500-3000 10 120


DEPARTMENT OF COMPUTER SCIENCE
Samuel D. Conte, Head

Applications due: *
Bachelor's by inst. 4197
Bachelor's by dept. 38
Master's by dept. 52
A&NT 2, L 1, CS 15. Total: 16

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Fellowship (2-4) 9-12
Teaching Assistantship (10-15) 3000-3600 10 60/sem.
Research Assistantship (10-15) 3000 10 60/sem.
Black Fellowship (2)

DEPARTMENT OF STATISTICS
Shanti S. Gupta, Head

Applications due: 3/1/73
Bachelor's by inst. 4197
Bachelor's by dept. 4
Master's by dept. 10
P&S 15. Total: 15

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Fellowship (1) 3400 12 60/sem.
Teaching Assistantship (28) 3000-3600 10 60/sem. 10-20 Teaching Ph. D. (1969-1971 incl.)
Research Assistantship (3) 3000-3600 10 60/sem. 10-20 Research P&S 15. Total: 15
Consultants (5) 3000-3600 10 60/sem. 15-20 Consulting

IOWA

Drake University, Des Moines 50311

DEPARTMENT OF MATHEMATICS
Wayne L. Woodworth, Chairman

Applications due: 3/1/73
Bachelor's by inst. 1176
Bachelor's by dept. 10
Master's by dept. 3

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Work-Study with local companies (2-4) 2000-2300 9-12 71/hr. 20-25 Depends on company

Iowa State University, Ames 50010

DEPARTMENT OF MATHEMATICS
Wilfred E. Barnes, Head

Applications due: 3/1/73
Bachelor's by inst. 3207
Bachelor's by dept. 83
Master's by dept. 3
A&NT 3, G&T 3, L 2, A&FA 5, CS 3. Total: 16

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Fellowship (3) 2400-2800
Teaching Assistantship (40) 2700-3060 9 120/qtr. 6 Teaching Ph. D. (1969-1971 incl.)
Research Assistantship (2) 2700-3600 9-12 120/qtr. 20 Research

DEPARTMENT OF AEROSPACE ENGINEERING
R. F. Brodsky, Head

Applications due: 4/15/73
Bachelor's by inst. 3207
Bachelor's by dept. 55
Master's by dept. 4
CS 3. Total: 3

Type Stipend Tuition Service Required Degrees Awarded

of financial assistance amount in dollars 9 or 12 months if not included in stipend (dollars) hours per week type of service Academic year 1971-1972

Fellowship (1) 3600 12 300*
Teaching Assistantship (2) 2700 9 300* 22
Research Assistantship (3) 2700 9 300*

*Reduction.

DEPARTMENT OF COMPUTER SCIENCE
Robert M. Stewart, Chairman

Applications due: 3/1/73
Bachelor's by inst. 3207
Bachelor's by dept. 56
Master's by dept. 17
CS 14. Total: 14

Teaching Assistantship (15) 2970-3240 9 120/qtr. 3-6 Teaching Ph. D. (1969-1971 incl.)
Research Assistantship (13) 2790-3150 9 120/qtr. 20 Research

377
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<th>TYPE OF SERVICE</th>
<th>TUITION</th>
<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
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<td>H. A. David, Head</td>
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<td>Bachelor's by dept. 5</td>
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<td>Teaching Assistantship (9)</td>
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<td>Research Assistantship (7)</td>
<td>295/mo. - 350/mo.</td>
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University of Iowa, Iowa City 52240

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<td>Richard Goldberg, Chairman</td>
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<td>Fellowship (1)</td>
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<td>Research Assistantship (1)</td>
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<td>Teaching-Research Fellows (4)</td>
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<td>*Free on Fellowship year.</td>
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<td><strong>University of Northern Iowa, Cedar Falls 50613</strong></td>
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KANSAS

Fort Hays Kansas State College, Hays 67601

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<td>Teaching Assistantship (3)</td>
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<td>*This estimate is based on a fifteen hour load.</td>
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Kansas State College of Pittsburg, Pittsburg 66762

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<td>Helen F. Kriegsman, Chairman</td>
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<td>Teaching Assistantship (5)</td>
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Kansas State Teachers College, Emporia 66801

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<td>Marion Emerson, Chairman</td>
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Kansas State University, Manhattan 66502

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<td>Fellowship (2)</td>
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<td>Paul S. Fisher, Acting Head</td>
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<td>Teaching Assistantship (5)</td>
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<td>Research Assistantship (2)</td>
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<td>DEPARTMENT OF STATISTICS</td>
<td>Applications due: 2/73</td>
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<td>Holly C. Fryer, Head</td>
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<td>Fellowship (6)</td>
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<td>Scholarship (5)</td>
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*Eligible for staff fees.

**Plus dependents allowance of $500 for each dependent.

University of Kansas, Lawrence 66044

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<td>Paul S. Mostert, Chairman</td>
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<td>DEPARTMENT OF COMPUTER SCIENCE</td>
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<td>Bachelor's by dept.</td>
<td>Master's by dept.</td>
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<td>Floyd R. Horowitz, Acting Chairman</td>
<td>2500-3200</td>
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*No baccalaureate degree program offered in computer science at this time.

**Some summer positions available.

Wichita State University, Wichita 67208

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<td>William M. Perel, Chairman</td>
<td>2800</td>
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| University of Kentucky, Lexington 40506

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<td>Raymon H. Box, Acting Chairman</td>
<td>2400-3600</td>
<td>12</td>
<td>215/sem.</td>
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<td>Fellowship (4)</td>
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<td>Thaddeus B. Curtz, Chairman</td>
<td>3400-3600</td>
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<td>Bachelor's by dept.</td>
<td>Master's by dept.</td>
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<td>R. L. Anderson, Chairman</td>
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<td>University Fellowship (3)</td>
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<td>430</td>
<td>*February 1, 1973 for Fellowship; April 1, 1973 for Assistantship.</td>
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University of Louisville, Louisville 40208

DEPARTMENT OF MATHEMATICS
Roger H. Geeslin, Chairman

Teaching Assistantship (6) 2750–2950 9 6 Teaching
DEPARTMENT OF APPLIED MATHEMATICS AND
COMPUTER SCIENCE
Bart Childs, Chairman

Teaching Assistantship (1) 2750 9
Research Assistantship (3) *
Instructor (1) *

*Variable.

Western Kentucky University, Bowling Green 42101

DEPARTMENT OF MATHEMATICS
Robert C. Bueker, Chairman

Fellowship (8) 2200–2700 9 193/sem. 10 Teaching, Tutorials

LOUISIANA

Louisiana State University, Baton Rouge 70803

DEPARTMENT OF MATHEMATICS
L. I. Wade, Head

Fellowship (4) 2400–3000 9 110 6 Teaching
Teaching Assistantship (40) 3200 9
Research Assistantship (2) 2800 9
Scholarship (2)


Louisiana State University in New Orleans 70122

DEPARTMENT OF MATHEMATICS
J. R. Foote, Chairman

Teaching Assistantship (10) 2250–2600 9 70 15 Teaching

Louisiana Tech University, Ruston 71270

DEPARTMENT OF MATHEMATICS
W. B. Temple, Head

Teaching Assistantship (6) 4000 9 15 Teaching
Graduate Assistantship (6) 2400 9


McNeese State University, Lake Charles 70601

DEPARTMENT OF MATHEMATICAL SCIENCES
Patrick L. Ford, Head

Teaching Assistantship (10) 2400 9 15 Teaching

Northeast Louisiana University, Monroe 71201

DEPARTMENT OF MATHEMATICS
Richard D. Finley, Head

Teaching Assistantship (15) 2400 9 6 Teaching

Northwestern State University, Natchitoches 71457

DEPARTMENT OF MATHEMATICS
Russell Whittington, Jr., Head

Teaching Assistantship (3) 600–2400 9 6–12 Teaching

Southeastern Louisiana University, Hammond 70401

DEPARTMENT OF MATHEMATICS
Robert C. Brown, Head

Teaching Assistantship (6) 2000–2400 9 63 6 Teaching
### Tulane University, New Orleans 70118

**DEPARTMENT OF MATHEMATICS**

Frank D. Quigley, Chairman

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Applications due: 2/15/73

Bachelor's by inst. 680
Bachelor's by dept. 24

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### University of Southwestern Louisiana, Lafayette 70501

**DEPARTMENT OF MATHEMATICS**

David R. Andrew, Head

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Applications due: 3/1/73

Bachelor's by inst. 1313
Bachelor's by dept. 69
Master's by dept. 11
CS 1. Total: 1

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### Bowdoin College, Brunswick 04011

**DEPARTMENT OF MATHEMATICS**

Richard L. Chittim, Chairman

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Applications due: 2/15/73

Bachelor's by inst. 230
Bachelor's by dept. 15
Master's by dept. 27

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### University of Maine at Orono 04473

**DEPARTMENT OF MATHEMATICS AND ASTRONOMY**

John C. Mairhuber, Chairman

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Applications due: 4/73

Bachelor's by inst. 1291
Bachelor's by dept. 34
Master's by dept. 4

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### Johns Hopkins University, Baltimore 21218

**DEPARTMENT OF MATHEMATICS**

J. H. Sampson, Chairman

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Applications due: 2/15/73

Bachelor's by inst. 526
Bachelor's by dept. 6
Master's by dept. 3
A & NT 4, A & FA 4. Total: 8

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### Johns Hopkins University, Baltimore 21218

**DEPARTMENT OF BIOSTATISTICS, SCHOOL OF HYGIENE AND PUBLIC HEALTH**

Alan Ross, Chairman

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Applications due: 3/1/73

Bachelor's by inst. 526
Master's by dept. 3
P&S 11. Total: 11

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### Johns Hopkins University, Baltimore 21218

**DEPARTMENT OF MATHEMATICAL SCIENCES**

Roger A. Horn, Chairman

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Applications due: 3/1/73

Bachelor's by inst. 526
Bachelor's by dept. 11
Master's by dept. 4
P&S 7, Other 14. Total: 21
### University of Maryland, Baltimore County, Baltimore 21228

**Division of Mathematics and Physics**

- **Richard C. Roberts, Chairman**
- **Teaching Assistantship (7)**
  - Application: 2/1/73
  - Stipend: $2900-$3400
  - Service: 9 months
  - Degree: Bachelor's by dept., 18

*March 1, 1973 for Fall; August 1, 1973 for Spring.*

### University of Maryland, College Park 20742

**Department of Mathematics**

- **J. K. Goldhaber, Chairman**
- **Fellowship (7)**
  - Application: 2/1/73
  - Stipend: $4000
  - Service: 9 months
  - A&NT 10, G&T 9, L 2, A&FA 19, P&S 3, CS 1, AM 26. Total: 70

- **Teaching Assistantship (12)**
  - Application: 2/1/73
  - Stipend: $2900-$3500
  - Service: 4-6 Teaching

*September 1, 1973 for Spring term.

**We hope to raise the maximum to $4100 in 1973-74.**

### Massachusetts

#### Boston College, Chestnut Hill 02167

**Department of Mathematics**

- **Joseph A. Sullivan, Chairman**
- **Teaching Fellowship (12)**
  - Application: 3/15/73
  - Stipend: $2400-$2600
  - Service: 6 Teaching

- **Scholarship (2)**
  - Application: 2/1/73
  - Stipend: $3 Remitted
  - Service: 3 Tutoring

#### Boston University, Boston 02215

**Department of Mathematics**

- **Robin E. Esch, Chairman**
- **Teaching Fellowship (17)**
  - Application: 2/1/73
  - Stipend: $2800
  - Service: 6 Teaching

- **Assistantship (2)**
  - Application: 2/1/73
  - Stipend: $9
  - Service: Varies

#### Brandeis University, Waltham 02154

**Department of Mathematics**

- **Harold I. Levine, Chairman**
- **Fellowship (14)**
  - Application: 2/1/73
  - Stipend: $1200-$3000
  - Service: 9-12

- **Teaching Assistantship (16)**
  - Application: 2/1/73
  - Stipend: $1300-$1400
  - Service: 3 Teaching

- **Research Assistantship (16)**
  - Application: 2/1/73
  - Stipend: $1200-$1300
  - Service: Research

- **Scholarship - Tuition (30)**
  - Application: 2/1/73
  - Stipend: $250-$2900

- **Wein, Afgrad (2)**
  - Application: 2/1/73
  - Stipend: $2400-$2500
  - Service: 9-10

### University of Maryland Baltimore County

**Graduate Study in Applied Mathematics Leading to M.S. and Ph.D. Degrees**

**Fields:** Functional and Numerical Analysis; Systems Analysis, Stochastic Control and Estimation; Ordinary Partial and Functional Differential Equations; Fluid Dynamics; Dynamical Systems; Mathematical Physics; Real and Complex Analysis; Probability Theory.

**Teaching Assistantships:** $2900—$3400 with Remission of Fees.

**Apply to:** Chairman, Graduate Committee

**Division of Mathematics & Physics**

**University of Maryland Baltimore County**

Baltimore, Maryland 21228

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382
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<td>Fellowship (3)</td>
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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>Michigan Technological University, Houghton 49931</td>
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<td>Zane C. Motteler, Head</td>
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384
Oakland University, Rochester 48063

DEPARTMENT OF MATHEMATICS
George F. Feeman, Chairman

Teaching assistantship (6) 2700 8 1116* 10 Teaching
*Waived in most cases.

University of Detroit, Detroit 48221

DEPARTMENT OF MATHEMATICS
Karl W. Folley, Chairman

Teaching Assistantship (6) 2400 9 Summertuition 6 Teaching included

Other (2)
*At least 8 weeks before term.

University of Michigan, Ann Arbor 48104

DEPARTMENT OF MATHEMATICS
James M. Kister, Chairman

Fellowship (10) 2000-3000 9 Research Teaching 700-840 4-6
Teaching Fellowship (85) 2400-3950 9 700-840 4-6
Teaching Assistantship (50) 600-1800 9 700-2360 4-15
Research Assistantship (5) up to 2400 9 Full-time Research
Scholarship (5) 700-2360 9
Other (15) up to 2000 9

*All types, including University, NSF, State and Actuarial Science Fellowships. Some are available on a 12 month basis with a proportionately higher stipend.
**Approximately 10 of these fellowships will be combination appointments.
***Primarily for students in Actuarial Science.
#Primarily for students of certain minority groups.

Wayne State University, Detroit 48202

DEPARTMENT OF MATHEMATICS
A. T. Bharucha-Reid, Acting Chairman

Fellowship (4)
Teaching Fellowship (30) 2800-4000 9 300 6
Teaching Assistantship (15) 3100-4700 9 300 6
Scholarship (2)

*Late applications will be considered if positions are still available.
Western Michigan University, Kalamazoo 49001

DEPARTMENT OF MATHEMATICS
A. Bruce Clarke, Chairman

Fellowship (6) 3000-4000 8 24/hr. 6 Teaching
Teaching Assistantship (20) 3000-3200 8 24/hr. 18 Teaching or Computer Center Assistant

Spring or Summer Assistantship (20) 750 2 18 Teaching

*Assistantships March 1, 1973, Fellowships February 15, 1973

MINNESOTA

Bemidji State College, Bemidji 56601

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
W. Richard Slinkman, Chairman

Teaching Assistantship (2) 2500 9 ** 6-7 Teaching

*No fixed date but April 15, 1973 preferred.
**$9.50 per credit hour for residents; $19.50 per credit hour for nonresidents. In addition, $30 in fees if registered for 9 hours; $15 in fees if registered for 8 hours or less.

Moorhead State College, Moorhead 56560

DEPARTMENT OF COMPUTER SCIENCE
Martin O. Hollien, Chairman

Employment in Computer Center (2) 500-600 9 7.25/hr.* 9,00/hr. ** 10 Operator

*Undergraduate
**Graduate

St. Cloud State College, St. Cloud 56301

DEPARTMENT OF MATHEMATICS
Alyn N. Dall, Chairman

Teaching Assistantship (4-6) 2400 9 * 8 Teaching

*$9.50/credit hour for residents and $19.50/credit hour for nonresidents.

University of Minnesota, Minneapolis 55455

DEPARTMENT OF MATHEMATICS
Johannes Nitsche, Head

Fellowship (6) 3000-4600* 9-12 600* Teaching
Teaching Fellowship (4) 3483 9 600* Teaching
Research Assistantship (8) 3375-4500* 9-12 600* Teaching
S. E. E. D. Assistantship (5)** 7500 Teaching

*These represent current rates. Rates for 1973-74 have yet to be decided.
**Teaching conceptual mathematics in inner-city elementary schools.

DEPARTMENT OF BIOMETRY
Marcus Kjelsberg, Director

Fellowship (13) 20 Teaching
Research Assistantship (2) 20 Research

DEPARTMENT OF COMPUTER INFORMATION AND CONTROL SCIENCE
J. B. Rosen, Head

Fellowship (2) 2000-6000 12 5-10 Teaching
Teaching Fellowship (5) 2000-4000 9 600 10-15 Teaching
Teaching Assistantship (8) 1800-3700 9 600 10-15 Teaching
Research Assistantship (6) 1800-3700 9 600 10-15 Programming
SCHOOL OF STATISTICS
Seymour Geisser, Director

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<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
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<td>4500-4800</td>
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*Resident tuition.

MISSISSIPPI
Mississippi State College for Women, Columbus 39701

DEPARTMENT OF MATHEMATICS
Donald A. King, Head

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<td>Graduate Assistantship (2)</td>
<td>1000-1600</td>
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University of Mississippi, University 38677

DEPARTMENT OF MATHEMATICS
Roy D. Sheffield, Chairman

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<td>2600-3200</td>
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<td>253/sem.</td>
<td>G&amp;T 1, A&amp;FA 6. Total: 7</td>
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University of Southern Mississippi, Hattiesburg 39401

DEPARTMENT OF MATHEMATICS
James Cavney, Chairman

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<td>Teaching Fellowship (6)</td>
<td>1500</td>
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MISSOURI
Central Missouri State College, Warrensburg 64093

DEPARTMENT OF MATHEMATICS
H. Keith Stumpf, Head

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<td>300</td>
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Northeast Missouri State University, Kirksville 63501

DIVISION OF MATHEMATICS
Dale Woods, Head

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<td>Teaching Fellowship (5)</td>
<td>2000</td>
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St. Louis University, St. Louis 63103

DEPARTMENT OF MATHEMATICS
Raymond Freese, Chairman

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<td>Teaching Fellowship (10)</td>
<td>2500</td>
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<td>70/sem. hr.*</td>
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*Some includes remission of tuition.

Southwest Missouri State University, Springfield 65802

DEPARTMENT OF MATHEMATICS
L. T. Shiflett, Head

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<td>Teaching Assistantship (6)</td>
<td>2500</td>
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University of Missouri-Columbia 65201

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<th>DEPARTMENT OF MATHEMATICS</th>
<th>Applications due: 3/1/73</th>
<th>Bachelor's by inst. 3232</th>
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<tr>
<td>W. R. Utz, Chairman</td>
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<td>Bachelor's by dept. 40</td>
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<td>Teaching Assistantship (60)</td>
<td>2900-5250</td>
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<td>Scholarship (6)</td>
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<td>A&amp;M 6, G&amp;T 2, A&amp;FA 4. Total: 12</td>
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DEPARTMENT OF COMPUTER SCIENCE

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<thead>
<tr>
<th>Paul Blackwell, Chairman</th>
<th>Applications due: 4/1/73</th>
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<tbody>
<tr>
<td>Teaching Assistantship (4)</td>
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<td>Master's by dept. 18</td>
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<td>Research Assistantship (2)</td>
<td>3900</td>
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<td>Error analyst in computer center (3)</td>
<td>4000</td>
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DEPARTMENT OF STATISTICS

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<th>David L. Hanson, Chairman</th>
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<td>Teaching Assistantship (12)</td>
<td>3000-3800</td>
<td>Master's by dept. 9</td>
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*Fees are currently $270 per semester.

University of Missouri-Kansas City 64110

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<td>Paul Liebnitz, Chairman</td>
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<td>Fellowship (3)</td>
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University of Missouri-Rolla 65401

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<th>DEPARTMENT OF MATHEMATICS</th>
<th>Applications due: 2/15/73</th>
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<td>Glen Haddock, Chairman</td>
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<td>Fellowship (1)</td>
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<td>3000</td>
<td>A&amp;M 2, G&amp;T 2, A&amp;FA 2, P&amp;S 5, CS 7. Total: 19</td>
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DEPARTMENT OF COMPUTER SCIENCE

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<th>John W. Hamblen, Chairman</th>
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Washington University, St. Louis 63130

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DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTER SCIENCE

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<th>William E. Ball, Chairman</th>
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<td>Bachelor's by inst. 692</td>
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MONTANA

Montana State University, Bozeman 59715

DEPARTMENT OF MATHEMATICS
Robert Engle, Acting Head
Teaching Assistantship (15) 3000-3400 9 * 6-7 Teaching

*59/qtr. residents, $81/qtr. nonresidents.

University of Montana, Missoula 59801

DEPARTMENT OF MATHEMATICS
Charles A. Bryan, Acting Chairman
Teaching Fellowship (1) 3000-3600 9-12
Teaching Assistantship (26) 2600-3000 9 *

*52 for residents and $134.50 for nonresidents.

DEPARTMENT OF COMPUTER SCIENCE
Robert P. Banaugh, Chairman
Teaching Assistantship (4) 2400-2600 9 *

*50 resident, $135 nonresident.

NEBRASKA

Chadron State College, Chadron 69337

DEPARTMENT OF MATHEMATICS
Keith B. Olson, Acting Head
Teaching Assistantship (1) 2000 9 368 6 Teaching

Creighton University, Omaha 68131

DEPARTMENT OF MATHEMATICS
D. J. H. Fuller, Chairman
Teaching Fellowship (3) 2600-2700 9

Kearney State College, Kearney 68847

DEPARTMENT OF MATHEMATICS
L. M. Larsen, Head
Teaching Assistantship (3) 2500 9 5-6 Teaching

University of Nebraska, Lincoln 68508

DEPARTMENT OF MATHEMATICS AND STATISTICS
Loren N. Argabright, Chairman
Fellowship (3) 2400-3000 9-12
Teaching Assistantship (45) 3200-3700 9 215/sem. 4-6 Teaching

University of Nebraska at Omaha 68101

DEPARTMENT OF MATHEMATICS
Paul A. Haeder, Head
Teaching Assistantship (6) 2520 9 17/cr. hr. 20

University of Nevada, Las Vegas 89109

DEPARTMENT OF MATHEMATICS
Sadanand Verma, Chairman
Teaching Assistantship (8) 2500-3100 9

University of Nevada, Reno 89503

DEPARTMENT OF MATHEMATICS
E. M. Beesley, Chairman
Teaching Fellowship (4) 2500-2900 9

389
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<td>(with number anticipated 1973-1974)</td>
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<td>J. Laurie Snell, Chairman</td>
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<td>M. Evans Munroe, Chairman</td>
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<td>H. A. Elkholy, Chairman</td>
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<td>**Additional allowance for dependents.</td>
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### DEPARTMENT OF APPLIED AND MATHEMATICAL STATISTICS

Arthur Cohen, Director

- **Teaching Assistantship (6)**: $3375, 9 hours, $420/semester, 15* hours
- **Research Assistantship (4)**: $3375-3720, 9-12 hours, $420/semester, 15* hours
- **Traineeship (1)**: $3000, 12 hours

*Maximum.

### Seton Hall University, South Orange 07079

**DEPARTMENT OF MATHEMATICS**

Applications due: 3/1/73

- **Bachelor's by inst.**: 4442
- **Bachelor's by dept.**: 5
- **Master's by dept.**: 20

**Teaching Assistantship (9)**: $2200, 9 hours

**Scholarship (2)**

### Stevens Institute of Technology, Hoboken 07030

**DEPARTMENT OF MATHEMATICS**

Applications due: 2/1/73

- **Bachelor's by inst.**: 288
- **Bachelor's by dept.**: 17
- **Master's by dept.**: 45

**Fellowship (1)**: $2400-3000, 12 hours

**Teaching Assistantship (10)**: $2800-3100, 9 hours

**Research Assistantship (1)**: $2800-3100, 9 hours

**Total**: 15

### Trenton State College, Trenton 08625

**DEPARTMENT OF MATHEMATICS**

Applications due: 5/1/73

- **Bachelor's by inst.**: 1471
- **Bachelor's by dept.**: 47
- **Master's by dept.**: 4

**Graduate Assistant (1-2)**: $2100, 9 hours

**Total**: Varies

---

### 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, nonlinear functional analysis, numerical analysis, and linear and nonlinear 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)

A new graduate program in Applied Mathematics will include 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 18,000 volumes and receives approximately 300 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 200 seminars each year. The University has an IBM 360/67 computer; 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, 1973.

**APPLICATION FORMS:**

Write to

**Graduate Admissions Office**

RUTGERS UNIVERSITY

New Brunswick, New Jersey 08903

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<tr>
<td>C. K. Wilson, Chairman</td>
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<td>T. A. Nartker, Chairman</td>
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<td>Adelphi University, Garden City 11530</td>
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<td>M. Yanowitch, Chairman</td>
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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 departmental 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
Clarkson College of Technology, Potsdam 13676

DEPARTMENT OF MATHEMATICS  
Alan C. Newell, Chairman  
Applications due: 3/1/73  
Bachelor's by inst.  591  
Bachelor's by dept.  11

Fellowship (2)  
2400–2800  9
Teaching Assistantship (6)  
2400–2700  9
Research Assistantship (2)  
4800–5200  12
Scholarship (4)  
820–2460  9

Columbia University, New York 10027

DEPARTMENT OF MATHEMATICS  
Lipman Bers, Chairman  
Applications due: 1/8/73  
Bachelor's by inst.  909  
Bachelor's by dept.  17  
Master's by dept.  7

Fellowship (10)*  
275/mo.  9
Teaching Assistantship (17)  
6  Assisting Faculty
Research Assistantship (10)  
6
Scholarship (9)

DEPARTMENT OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE  
Thomas E. Stern, Chairman  
Applications due: 1/1/73  
Bachelor's by dept.  33  
Master's by dept.  51

Fellowship (7)  
Teaching Assistantship (17)  
6
Research Assistantship (10)  
Scholarship (9)

DEPARTMENT OF MATHEMATICAL STATISTICS  
Herbert E. Robbins, Chairman  
Applications due: Open  
Master's by dept.  4

Fellowship (12)  
275/mo.  9-12
Research Assistantship (5)  
275/mo.  9-12

*All admitted students are awarded a 9-month fellowship. We hope and expect to continue such fellowship up to a total of 4 years provided student remains in good standing. Summer support may be provided occasionally if funds are available.

**All students are expected to serve 2 years as teaching assistants as part of the degree requirement.

Cornell University, Ithaca 14850

DEPARTMENT OF MATHEMATICS  
W. H. J. Fuchs, Chairman  
Applications due: 2/1/73  
Bachelor's by inst.  2402  
Bachelor's by dept.  65

Fellowship (10)  
2000–3000  9
Teaching Assistantship (45)  
2700–2800  9
Research Assistantship (5)  
5400  9

CENTER FOR APPLIED MATHEMATICS  
William F. Lucas, Director  
Applications due: 2/1/73  
Bachelor's by inst.  2402  
Master's by dept.  3

Fellowship (8)  
2000–3000  9
Teaching Assistantship (12)  
2700–2800  9
Research Assistantship (3)  
2000–2800  9–12

DEPARTMENT OF COMPUTER SCIENCE  
Gerard Salton, Chairman  
Applications due: 1/15/73  
Master's by dept.  8

Fellowship (9)  
2000–3000  9
Teaching Assistantship (22)  
2700–3000  9
Research Assistantship (20)  
2400–2600  9

DEPARTMENT OF OPERATIONS RESEARCH  
Robert E. Behbohfer, Chairman  
Applications due: 2/1/73  
Bachelor's by inst.  2402  
Bachelor's by dept.  94

Fellowship (5)  
2300–3000  9
Teaching Assistantship (16)  
2700–3000  9
Research Assistantship (19)  
5400  9

*Up to 10 hours of teaching required of all students in second and third years.
Fordham University, New York 10458

DEPARTMENT OF MATHEMATICS
Hsing Tong, Chairman

Fellowship (1) 2400-3000 9
Teaching Fellowship (4) 2400-3000 9
Teaching Assistantship (7) 2400-3000 9
Scholarship (7) 2400-3000 9

Hofstra University, Hempstead 11540

DEPARTMENT OF MATHEMATICS
Robert J. Bumcrot, Chairman

Fellowship (2) 2500 9 77/cr. 3 Tutoring
Teaching Assistantship (4) 675-3050 4 1/2-12 77/cr. 3-6 Teaching
Graders (2) Varies 77/cr. Varies Grading

Manhattan College, New York 10471

DEPARTMENT OF MATHEMATICS
John P. McCabe, Head

NSF In-Service (32) 425 9

New York University, New York 10003

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Peter D. Lax, Director
Courant Institute of Mathematical Sciences

Fellowship (22) 3300-3700 12
Research Assistantship (33) 3300-3700 12

New York University, University Heights, Bronx 10453

DEPARTMENT OF MATHEMATICS
Joseph B. Keller, Chairman

This campus is closing as of September 1973. Direct applications to New York University, Courant Institute of Mathematical Sciences, 251 Mercer Street, New York, New York 10012.

Polytechnic Institute of Brooklyn, Brooklyn 11201

DEPARTMENT OF MATHEMATICS
Harry Hochstadt, Head

Teaching Fellowship (12) 2000-2400 9 4 Teaching
Rensselaer Polytechnic Institute, Troy 12181

DEPARTMENT OF MATHEMATICS
Richard C. DiPrima, Chairman

Fellowship (3)* 2025-2400 2 at 9
Teaching Assistantship (30)* 2500-3100 6-8 cr. Teaching hrs.
Research Assistantship (6)* 2400-3000 20
Scholarship (5)*

Applications due: 2/15/73
Bachelor's by inst. 840
Bachelor's by dept. 43
Master's by dept. 43

*Number given is total number not the number available to new students.

St. John's University, Jamaica 11432

DEPARTMENT OF MATHEMATICS
Edward J. Miranda, Chairman

Teaching Assistantship (11) 2400-2600 9

Applications due: 4/30/73
Bachelor's by inst. 512
Bachelor's by dept. 55
Master's by dept. 10

St. John's University, Staten Island 10301

DIVISION OF MATHEMATICS AND SCIENCE
Michael Capobianco, Chairman

Graduate Assistantship (1) 2400 9

Applications due: 3/15/73
Computer Lab. Supervising, Grading, Proctoring

State University College at Brockport 14420

DEPARTMENT OF MATHEMATICS
Edward O. Stephany, Chairman

Teaching Assistantship (3) 2500 9

Applications due: 3/15/73
Bachelor's by inst. 1400
Bachelor's by dept. 90
Master's by dept. 16

State University College at Buffalo 14222

DEPARTMENT OF MATHEMATICS
Richard A. Wiesen, Chairman

Teaching Assistantship (2) 2500 9

Applications due: 2/15/73
Bachelor's by dept. 60
Master's by dept. 17

State University College at Cortland 13045

DEPARTMENT OF MATHEMATICS
Thomas O'Loughlin, Acting Chairman

Teaching Assistantship 2500 9

Applications due: 1/15/73
Bachelor's by inst. 939
Bachelor's by dept. 25
Master's by dept. 5

State University College at Fredonia 14063

DEPARTMENT OF MATHEMATICS
Frank R. Olson, Chairman

Teaching Assistantship (4) 2200-2400 9

Applications due: 4/15/73
Bachelor's by inst. 756
Bachelor's by dept. 24
Master's by dept. 12

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 1973-74.

Interested students are requested to write:

Edward J. Miranda, Chairman
Department of Mathematics—St. John's University
Jamaica, New York 11432
THE STATE UNIVERSITY
OF NEW YORK AT ALBANY

is one of four university centers in the statewide SUNY system, and is located just outside of Albany, in a new $110,000,000 campus designed by Edward Durell Stone.

The Mathematics Department has more than tripled in size in the last five years, aided by a National Science Foundation Departmental Development Grant, and as part of the large overall expansion of the SUNY system during this period.

Graduate students in the small, but growing Ph.D. program receive a large amount of individual attention from the faculty – both in their courses, which are small, and when pursuing research and independent activities.

Current graduate staff includes:

G. Allaud R. Gangolli T. MacGregor M. Smiley
D. Ballou R. Goldstein G. Martin H. Stratton
J. Becker H. Gordon R. Norris J. Stutz
L. Brickman W. Hammond R. Nirenberg R. Sullivan
H. Brown R. Hornblower H. Ogawa E. Thomas
L. Childs B. Jamison R. O’Neil A. Tong
V. Cowling J. Jenkins D. Porter E. Turner
E. Davis M. Katz R. Rupp D. Wilken
R. Elderkin V. Lamey M. Sherman C. Yu
N. Friedman L. Lininger W. Shih

Studies leading to the Ph.D. are offered in:

algebra – including commutative & homological algebra
algebraic geometry
algebraic & differential topology
transformation groups
global analysis
group representations
real, complex and functional analysis

function algebras
several complex variables
partial differential equations
probability & ergodic theory
statistics
control theory
number theory

A new masters degree program in applied statistics will be offered in addition to the normal range of master’s degree programs.

Financial assistance is readily available for good M.A. and Ph.D. students. Stipends range from $2,800 to $3,600.

Applications from minority and female students are especially welcomed.

Direct inquiries to

Graduate Chairman
Department of Mathematics
SUNY at Albany
Albany, New York 12222
PH: (518) 457-3963

**********
STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

The Mathematics Department of the State University of New York at Binghamton offers graduate work leading to MAT/MST, M.A. and Ph.D. degrees in mathematics. Areas of specialization for doctoral research include algebra (in particular group theory), differential equations, functional analysis, graph theory and topology. The department is especially strong in certain areas of topology such as mappings, geometric topology, PL topology, decomposition and fiber spaces.

Numerous seminars both on the research and instructional level, together with small classes, make it possible to offer students an unusual amount of attention from an active faculty. All graduate students will gain experience in teaching through assistantships. For a more detailed account of our graduate programs, research interests of our faculty, course selections, examination procedures, etc. write for folder B to the Graduate Committee, Dept. of Mathematics

SUNY at Binghamton
Binghamton, New York 13901

STATE UNIVERSITY OF NEW YORK AT BUFFALO

Graduate assistantships are available in various amounts (this year from $2900 to $3550) with remission of tuition. Duties may include a maximum of four classroom hours of teaching per week, or about eight hours of paper grading per week. Also, SUNY at Buffalo offers graduate fellowships at $4000 per twelve months, tenable for three years. Last year two 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, algebraic geometry, 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
4246 Ridge Lea Road—Amherst, New York 14226
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<th>TYPE</th>
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**State University of New York at Binghamton 13901**

**DEPARTMENT OF MATHEMATICS**

Louis F. McAuley, Chairman

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**State University of New York at Buffalo, Amherst 14226**

**DEPARTMENT OF MATHEMATICS**

Nicholas D. Kazarinoff, Chairman

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*Awarded by University at large. Last year 2 were won by mathematics students.

**DEPARTMENT OF COMPUTER SCIENCE**

Anthony Ralston, Chairman

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**DEPARTMENT OF STATISTICS**

Emanuel Parzen, Chairman

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**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 have received their Ph.D. degree since, but no earlier than December 1, 1971, thereby enabling them to carry forward a research program. All requirements for the Ph.D. must be completed by September 1, 1973. At least one and not more than two Research Instructorships will be awarded for 1973—74 with each appointment being for two years. The 12 month stipend, beginning September 1973, is $15,600 including generous staff benefits. Teaching load will total two one-semester courses during the 12-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 three mathematicians to send letters of recommendation. Application forms are available upon request. The 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 22, 1973. Appointments will be made early in February.
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<th>TYPE of financial assistance</th>
<th>STIPEND amount in dollars</th>
<th>TUITION if not included in stipend (dollars)</th>
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</table>
Duke University, Durham 27706

DEPARTMENT OF MATHEMATICS
J. R. Shoenfield, Chairman

<table>
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<th>Stipend</th>
<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tbody>
<tr>
<td>Fellowship (7)</td>
<td>2600-3500</td>
<td>432-1726</td>
<td>12 months</td>
<td>3 years</td>
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<td>Teaching Assistantship (15)</td>
<td>3100-4200</td>
<td>3-6 weeks</td>
<td>9 hours</td>
<td>4 years</td>
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Applications due: 2/1/73
Bachelor's by inst. 987
Bachelor's by dept. 49
Master's by dept. 3

DEPARTMENT OF COMPUTER SCIENCE
Merrell Patrick, Acting Chairman

<table>
<thead>
<tr>
<th>Type of Financial Assistance</th>
<th>Stipend</th>
<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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</thead>
<tbody>
<tr>
<td>Teaching Fellowship (4)</td>
<td>4000</td>
<td>2160</td>
<td>10 weeks</td>
<td>5 years</td>
</tr>
<tr>
<td>Research Assistantship (4)</td>
<td>4000</td>
<td>2160</td>
<td>20 weeks</td>
<td>5 years</td>
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Applications due: 2/15/73
Bachelor's by inst. 987
Bachelor's by dept. 46
Master's by dept. 19

East Carolina University, Greenville 27834

DEPARTMENT OF MATHEMATICS
Tullio J. Pignani, Chairman

<table>
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<th>Type of Financial Assistance</th>
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<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tbody>
<tr>
<td>Computer and Office Institutional Fellowship (12)</td>
<td>2000</td>
<td>2000</td>
<td>5 hours</td>
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<tr>
<td>Research (4)</td>
<td>2000</td>
<td>2000</td>
<td>15 hours</td>
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Applications due: 3/1/73
Bachelor's by inst. 1638
Bachelor's by dept. 11
Master's by dept. 6

North Carolina State University, Raleigh 27607

DEPARTMENT OF MATHEMATICS
Nicholas J. Rose, Head

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<th>Type of Financial Assistance</th>
<th>Stipend</th>
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<th>Service Required</th>
<th>Degrees Awarded</th>
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<tbody>
<tr>
<td>Fellowship (3)</td>
<td>2400-3000</td>
<td>425</td>
<td>12 months</td>
<td>6-10 years</td>
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<tr>
<td>Teaching Fellowship (55)</td>
<td>3000-3800</td>
<td>425</td>
<td>9 hours</td>
<td>6-10 years</td>
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Applications due: 3/1/73
Bachelor's by inst. 2000
Bachelor's by dept. 42
Master's by dept. 30

DEPARTMENT OF COMPUTER SCIENCE
F. E. Lewis, Head

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<tr>
<td>Teaching Assistantship (3)</td>
<td>2700-3600</td>
<td>2700-3600</td>
<td>9-12 hours</td>
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<tr>
<td>Research Assistantship (3)</td>
<td>2700-3600</td>
<td>2700-3600</td>
<td>9-12 hours</td>
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Applications due: 5/1/73
Bachelor's by inst. 2000
Bachelor's by dept. 71

*Applications due: 3/15/73
$423/yr. (in-state); $2,004/yr. (out-of-state); $954/yr. (special talent tuition, out-of-state.)

University of North Carolina, Chapel Hill 27514

DEPARTMENT OF MATHEMATICS
Fred B. Wright, Chairman

<table>
<thead>
<tr>
<th>Type of Financial Assistance</th>
<th>Stipend</th>
<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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</thead>
<tbody>
<tr>
<td>Fellowship (2)</td>
<td>4200</td>
<td>9-12</td>
<td>0-20 weeks</td>
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<tr>
<td>Research Assistantship (27)</td>
<td>3660-4580</td>
<td>9-12</td>
<td>0-20 weeks</td>
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Applications due: 2/1/73
Bachelor's by inst. 2812
Bachelor's by dept. 44
Master's by dept. 10

DEPARTMENT OF BIOSTATISTICS
James E. Grizzle, Head

<table>
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<tr>
<th>Type of Financial Assistance</th>
<th>Stipend</th>
<th>Tuition</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellowship (30)</td>
<td>2400-2800*</td>
<td>438-598</td>
<td>12 months</td>
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</tr>
<tr>
<td>Research Assistantship (4)</td>
<td>4400-5200**</td>
<td>438-598</td>
<td>12 months</td>
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Applications due: 3/15/73
Bachelor's by inst. 2812
Master's by dept. 14

*Plus allowance of $500 per dependent, plus payment of tuition and fees.
**Plus tuition and fees.
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<th>TYPE</th>
<th>STIPEND</th>
<th>TUITION</th>
<th>SERVICE REQUIRED</th>
<th>DEGREES AWARDED</th>
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<tr>
<td></td>
<td>amount</td>
<td>if not included</td>
<td>hours</td>
<td>type</td>
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<tr>
<td></td>
<td>in dollars</td>
<td>in stipend (dollars)</td>
<td>per week</td>
<td>of service</td>
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**DEPARTMENT OF COMPUTER SCIENCE**

Frederick P. Brooks, Jr., Chairman

| Fellowship (1) | 2800 | 9 | 398 |
| Teaching Fellowship (1) | 3000 | 9 | * |
| Research Assistantship (5) | 2800-3600 | 9 | * |

Applications due: 2/1/73

Bachelor's by inst. 2812
Master's by dept. 13

CURRICULUM IN OPERATIONS RESEARCH AND SYSTEMS ANALYSIS

Fred B. Wright, Acting Head

Applications due: 2/1/73

Bachelor's by inst. 2812

*$398 in-state, $1973 out-of-state. Normally, Teaching Assistant receives in-state rate but this is not guaranteed.

**DEPARTMENT OF STATISTICS**

Norman L. Johnson, Chairman

Applications due: 2/1/73

Bachelor's by inst. 2812
Master's by dept. 4

Fellowship (4) | 2800-3200 | 9 | 10 | Research |
| Teaching Assistantship (2) | 2800 | 9 | * | Research |
| Research Assistantship (9) | 2800 | 9 | * | Research |

*Applications due: 4/1/73 Bachelor's by inst. 1250
Master's by dept. 50
Bachelor's by dept. 47
Master's by dept. 3

**University of North Carolina at Greensboro 27412**

Applications due: 4/1/73

*Applications due: 3/1/73 Bachelor's by inst. 514
Master's by dept. 3

E. E. Posey, Head

Teaching Assistantship (19) | 1600-3200 | 9 | 320 | 3-6 | Teaching |
| Research Assistantship (5) | 1200-2400 | 9 | 320 | Varies | Research |

**Wake Forest University, Winston-Salem 27109**

Ivey C. Gentry, Chairman

Applications due: 3/1/73

Bachelor's by inst. 514
Master's by dept. 3

Fellowship (4) | 3300 | 9 | 1900 |
| Teaching Assistantship (2) | 4300-4500 | 9 | 1900 | 12 |
| Scholarship (4) | 1900 | 9 | 1900 |

**NORTH DAKOTA**

**North Dakota State University, Fargo 58102**

Robert F. Tidd, Chairman

Applications due: 3/1/73

Bachelor's by inst. 985
Master's by dept. 23

Teaching Assistantship (5) | 2000-3000 | 9 | 25/qtr. | 20 | Teaching, grading, advising |

**University of North Dakota, Grand Forks 58201**

Ronald Bzoch, Chairman

Applications due: 4/1/73

Master's by dept. 7

Teaching Assistantship (3) | 2300 | 9 | 6 | Teaching |

**OHIO**

**Bowling Green State University, Bowling Green 43403**

Louis C. Graue, Chairman

Applications due: 3/15/73

Bachelor's by inst. 2633
Master's by dept. 74

Fellowship (3) | 2400 | 12 |
| Teaching Fellowship (6) | 2000-4000 | 9 | 10-20 | Teaching |
| Teaching Assistantship (20) | 1470-2940 | 9 | 10-20 | Teaching |
| Research Assistantship (1-2) | 2000-4000 | 12 | 1050 | 10-20 | Research |

Applications due: 4/1/73

Bachelor's by inst. 2033
Master's by dept. 10
---

**Case Western Reserve University, Cleveland 44106**

DEPARTMENT OF MATHEMATICS AND STATISTICS  
A. J. Lohwater, Chairman

<table>
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<tr>
<th>Type of Assistance</th>
<th>Stipend Amount (in dollars)</th>
<th>Tuition Required (in dollars per week)</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tbody>
<tr>
<td>Fellowship (15)</td>
<td>2300</td>
<td>3-4</td>
<td>Teaching</td>
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<tr>
<td>Teaching Fellowship (15)</td>
<td>3600</td>
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<td>Bachelor's by dept. 14</td>
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DEPARTMENT OF BIOMETRY  
H. B. Houser, Acting Chairman

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<th>Type of Assistance</th>
<th>Stipend Amount (in dollars)</th>
<th>Tuition Required (in dollars per week)</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<td>Research Assistantship (1)</td>
<td>200</td>
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<td>Master's by dept. 2</td>
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DEPARTMENT OF OPERATIONS RESEARCH  
Burton V. Dean, Chairman

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<th>Type of Assistance</th>
<th>Stipend Amount (in dollars)</th>
<th>Tuition Required (in dollars per week)</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tbody>
<tr>
<td>Fellowship (8)</td>
<td>2600</td>
<td>8</td>
<td>Grading</td>
<td>Bachelor's by inst. 929</td>
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<td>Teaching Assistantship (4)</td>
<td>3825-4185</td>
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<td>Teaching</td>
<td>Bachelor's by dept. 14</td>
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<td>Research Assistantship (12)</td>
<td>2400</td>
<td>20</td>
<td>Research</td>
<td>Master's by dept. 6</td>
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*April 1, 1973; December 1, 1973.

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**Cleveland State University, Cleveland 44115**

DEPARTMENT OF MATHEMATICS  
Robert R. Stoll, Chairman

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<th>Type of Assistance</th>
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<th>Tuition Required (in dollars per week)</th>
<th>Service Required</th>
<th>Degrees Awarded</th>
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<tr>
<td>Teaching Assistantship (5)</td>
<td>3000</td>
<td>20</td>
<td>Teaching</td>
<td>Bachelor's by inst. 1240</td>
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**John Carroll University, Cleveland 44118**

DEPARTMENT OF MATHEMATICS  
Leo J. Schneider, Chairman

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<tr>
<td>Teaching Assistantship (7)</td>
<td>2000</td>
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<td>Grading, Tutoring</td>
<td>Bachelor's by inst. 450</td>
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**Kent State University, Kent 44240**

DEPARTMENT OF MATHEMATICS  
Richard K. Brown, Chairman

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<td>Fellowship (3)</td>
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<td>5-6</td>
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<td>3400-4200</td>
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<td>2500-3000</td>
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<td>Master's by dept. 27</td>
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*Late applications will be considered if vacancies exist.

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**Miami University, Oxford 45056**

DEPARTMENT OF MATHEMATICS  
Lyman C. Peck, Chairman

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<th>Service Required</th>
<th>Degrees Awarded</th>
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<tr>
<td>Teaching Assistantship (25)</td>
<td>2610</td>
<td>5/4 hr.</td>
<td>Teaching, Assisting</td>
<td>Bachelor's by inst. 2502</td>
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**Ohio State University, Columbus 43210**

DEPARTMENT OF MATHEMATICS  
Arnold E. Ross, Chairman

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<td>Master's by dept. 41</td>
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*One 5-hour class.

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<th>STIPEND</th>
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<td></td>
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<td>2400-3600</td>
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<td>2700-3375</td>
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<td>3300-4500</td>
<td>12</td>
<td>20 Research</td>
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<td>Center (4)</td>
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<td>Computer Center (2)</td>
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<td>3300 and up</td>
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**Ohio University, Athens 45701**

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<tr>
<td>Robert G. Helsel, Chairman</td>
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<td>Scholarship Tuition (3/qtr.)</td>
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<td>180-540</td>
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**University of Akron, Akron 44304**

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<tr>
<td>William H. Beyer, Head</td>
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<tr>
<td>Teaching Assistantship (16)</td>
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<td>2400</td>
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<td>18 Teaching, Assisting Professors</td>
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**University of Cincinnati, Cincinnati 45221**

<table>
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<td>Scholarship (21)</td>
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**Xavier University, Cincinnati 45207**

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<tbody>
<tr>
<td>William J. Larkin, Chairman</td>
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<tr>
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**University of Dayton, Dayton 45409**

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<th>DEGREES AWARDED</th>
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<tr>
<td>H. G. Mushenheim, Chairman</td>
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<tr>
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**University of Toledo, Toledo 43606**

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**Wright State University, Dayton 45431**

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<tr>
<td>Robert D. Dixon, Chairman</td>
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<tr>
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### Youngstown State University, Youngstown 44503

**DEPARTMENT OF MATHEMATICS**  
Luke N. Zaccaro, Chairman  
Teaching Assistantship (5)  
- Stipend: $3200  
- Tuition: 9  
- Hours per week: 15/qtr. hr.  
- Type of service: 5 Teaching

**OKLAHOMA**

### Oklahoma State University, Stillwater 74074

**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
John Jewett, Head  
Teaching Assistantship (55)  
- Stipend: $2700–2880  
- Tuition: 9  
- Hours per week: 14/sem. hr.  
- Type of service: 6 Teaching

**DEPARTMENT OF COMPUTING AND INFORMATION SCIENCE**  
Donald D. Fisher, Head  
Teaching Assistantship (4)  
- Stipend: $300/mo.  
- Tuition: 9  
- Hours per week: 14/cr. hr.*  
- Type of service: 20 Research  

Attractions:  
- Later applications will be considered for any vacancies that remain.

### University of Oklahoma, Norman 73069

**DEPARTMENT OF MATHEMATICS**  
Gene Levy, Chairman  
Teaching Assistantship (50)  
- Stipend: $2700–3000  
- Tuition: 9  
- Hours per week: 14/cr. hr.  
- Type of service: 6 Teaching

*Preference given to those filed by March 1, 1973.

### University of Oklahoma, Oklahoma City 73190

**DEPARTMENT OF BIOSTATISTICS AND EPIDEMIOLOGY**  
Health Sciences Center, College of Health  
Paul S. Anderson, Jr., Chairman  
Research Assistantship (1)  
- Stipend: $3000  
- Tuition: 9  
- Hours per week: 2–4

**DEPARTMENT OF INFORMATION AND COMPUTING SCIENCES**  
James A. Payne, Chairman  
Teaching Assistantship (5)  
- Stipend: $2250–3000  
- Tuition: 9  
- Hours per week: 14/cr. hr.  
- Type of service: 20 Teaching

### Oregon State University, Corvallis 97331

**DEPARTMENT OF MATHEMATICS**  
B. H. Arnold, Acting Chairman  
NDEA Fellowship (2)  
- Stipend: 9  
- Teaching: 10  

**DEPARTMENT OF STATISTICS**  
Lyle D. Calvin, Chairman  
Fellowship (8)  
- Stipend: 9–12

## Oregon

**DEPARTMENT OF MATHEMATICS**  
B. H. Arnold, Acting Chairman  
NDEA Fellowship (2)  
- Stipend: 9  

**DEPARTMENT OF STATISTICS**  
Lyle D. Calvin, Chairman  
Fellowship (8)  
- Stipend: 9–12
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<td>per week</td>
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<td>J. Richard Byrne, Chairman</td>
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<td>Fellowship (2)</td>
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<tr>
<td>Joseph B. Kadane, Head</td>
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The table above provides a summary of financial assistance and degree requirements for various universities and their respective departments. The table includes information on types of assistance offered, stipend amounts, tuition, service requirements, and degrees awarded. Each entry includes details such as the type of institution, department, financial assistance type, stipend amount, tuition, service required, and degrees awarded. The academic years range from 1970-1971 to 1971-1972, with varying levels of financial assistance and degrees offered.
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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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<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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<td>Teaching Ph.D. (1969-1971 incl.)</td>
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<tr>
<td>C. F. Sebesta, Chairman</td>
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<td>1382-1490</td>
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<td>Samuel P. Wallace, Head</td>
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<tr>
<td>Melvin R. Woodard, Chairman</td>
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<tr>
<td>Kutztown State College, Kutztown 19530</td>
<td>Teaching Assistantship (1 or 2)</td>
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<td>Tutoring, proctoring, grading</td>
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<tr>
<td>Edward W. Evans, Chairman</td>
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<td>Lehigh University, Bethlehem 18015</td>
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<tr>
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<td>Scholarship (2)</td>
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<td>*Late applications considered. **For additional compensation. ***Subject to revision upward.</td>
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<tr>
<td>DREXEL UNIVERSITY</td>
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<tr>
<td>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 $2,475 to $3,600 and a waiver of tuition and fees. Interested applicants should request further information from Dr. Bernard Kolman, Acting Head, Mathematics Department Drexel University Philadelphia, Pennsylvania 19104</td>
<td></td>
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</table>
TEMPLE UNIVERSITY, PHILADELPHIA

offers an M. A. and Ph. D. program in Mathematics in a variety of fields including Algebra, Group Theory, Number Theory, Geometry, Topology, Probability and Statistics, Analysis, and Functional Analysis. In addition, a new Ph. D. program with special consideration for pedagogical theory and methods, and a terminal evening MA program in Applied Mathematics are being initiated.

A limited number of assistantships and fellowships is available. For further information and applications for admission and financial support write to:

Dr. Albert Schild, Chairman
Department of Mathematics
TEMPLE UNIVERSITY
Philadelphia, Pennsylvania 19122

---

408
<table>
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<td>Eugenio Calabi, Chairman</td>
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<td>W. E. Deskins, Chairman</td>
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<td>C. C. Li, Head</td>
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<td>Human Genetics Fellowship (3)</td>
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<td>Human Genetics Fellowship (3)***6000-7000 12 *</td>
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<td>James O. Brooks, Chairman</td>
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### UNIVERSITY OF PENNSYLVANIA

**GRADUATE PROGRAMS IN STATISTICS AND IN OPERATIONS RESEARCH**

**TEACHING FELLOWSHIPS:** - - - - - - - - - - 9 months, $2,750 - $3,150 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 19104
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<th>TYPE</th>
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<td>amount</td>
<td>in dollars</td>
<td>in tuition</td>
<td>hours per week</td>
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<td>(with number anticipated 1973-1974)</td>
<td>9 or 13 months</td>
<td>in stipend (dollars)</td>
<td>in stipend (dollars)</td>
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<td>Bachelor's by inst.</td>
<td>1197</td>
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<td>Richard G. Branton, Chairman</td>
<td>Teaching Assistantship (2)</td>
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*November 1972 and April 15, 1973*
SOUTH CAROLINA

Clemson University, Clemson 29631

DEPARTMENT OF MATHEMATICAL SCIENCES

John Kenelly, Head

Fellowship (3) *
Teaching Assistantship (60) 3600-4020 12 90/sem. 3-6 Teaching
Research Assistantship (6) 3260-3660 12 90/sem.

Applications due: 3/1/73
Bachelor's by inst. 1195
Bachelor's by dept. 25
Master's by dept. 24

A&NT 4, G&T 3, A&FA 5,
P&S 2. Total: 14

* $2400 for first year graduate students; $2600 for second year students; $2800 for third year students plus $500 per dependent.

University of South Carolina, Columbia 29208

DEPARTMENT OF MATHEMATICS

J. H. Wahab, Head

Teaching Assistantship (70) 2800-4000 9 30/sem. 5-6 Teaching

Applications due: 3/1/73
Bachelor's by inst. 2186
Bachelor's by dept. 37
Master's by dept. 50


Winthrop College, Rock Hill 29730

DEPARTMENT OF MATHEMATICS

B. G. Hodges, Chairman

Teaching Assistantship (3) 2400-2800 9 470 6 Teaching

Applications due: 4/1/73
Bachelor's by inst. 184
Bachelor's by dept. 12
Master's by dept. 2

SOUTH DAKOTA

South Dakota School of Mines & Technology, Rapid City 57701

DEPARTMENT OF MATHEMATICS

Dean C. Benson, Chairman

Teaching Assistantship (6) 2600 9 6/sem. hr. 4-5 Teaching
Research Assistantship (1) 2600 9 6/sem. hr. 18 Research

Applications due: 4/1/73
Bachelor's by inst. 184
Bachelor's by dept. 12
Master's by dept. 2

THE MATHEMATICS DEPARTMENT OF
THE UNIVERSITY OF SOUTH CAROLINA
IS NOW ACCEPTING APPLICATIONS FOR
TEACHING ASSISTANTSHIPS FOR THE 1973-1974 ACADEMIC YEAR
STIPENDS RANGE FROM $2800 TO $4000
FOR SIX HOURS CLASSROOM TEACHING OR EQUIVALENT
DEGREE PROGRAMS

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, logic and foundations. Careful attention will be given to initial advisement and to starting each student in a program commensurate with his training and competence.

Completed applications should be in the Graduate School Office by March 1. All inquiries are welcome and should be sent to:

Director
Graduate Studies in Mathematics
Department of Mathematics
University of South Carolina
Columbia, South Carolina 29208

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*All graduate students (residents and nonresidents) must pay $136 per quarter.*
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**Tuition rebates 9 semester hour per semester.**

**Texas**

**Baylor University, Waco 76703**

DEPARTMENT OF MATHEMATICS
Howard L. Rolf, Chairman

- Teaching Assistantship (2) | 1500 | 9 | 3 | Teaching |
- Research Assistantship (2) | 1500 | 9 | 12 |

**East Texas State University, Commerce 75428**

DEPARTMENT OF MATHEMATICS
Dale R. Bedgood, Head

- Teaching Assistantship (12) | 2700–3200 | 9 | 117 | Teaching |
  | | | | hrs. |

**Lamar University, Beaumont 77710**

DEPARTMENT OF MATHEMATICS
Jeremiah M. Stark, Head

- Teaching Fellowship (4) | 2800 | 9 | 846 | 6 | Teaching |

**Midwestern University, Wichita Falls 76308**

DEPARTMENT OF MATHEMATICS
Louie C. Huffman, Chairman

- Teaching Assistantship (6) | 2700 | 9 | 50/sem. | 6 | Teaching |

**North Texas State University, Denton 76203**

DEPARTMENT OF MATHEMATICS
Frank Conner, Chairman

- Teaching Assistantship (23) | 3100–3500 | 9 | 142/sem. | 8 | Teaching, Tutoring |

**Rice University, Houston 77001**

DEPARTMENT OF MATHEMATICS
Solomon Bohnner, Chairman

- Fellowship (13) | 1800–2600 | 9* | 6 | Teaching |
  | Scholarship (4) | 9 |
*Appropriately higher for 12 months, |

DEPARTMENT OF MATHEMATICAL SCIENCES
Robert M. Thrall, Chairman

- Fellowship (4) | 2300 | 9 | 10 | |
- Research Assistantship (7) | 4000–4600 | 9 | 2300 | 10–20 |
- Scholarship (3) | 9 |

**St. Mary's University, San Antonio 78228**

DEPARTMENT OF MATHEMATICS
Frederick J. Carter, Chairman

- Teaching Assistantship (1) | 2000 | 9 | 43/sem. hr. | 6 | Teaching |

*Applications due: 2/15/73
Bachelor's by inst. 865
Bachelor's by dept. 23
Master's by dept. 1

*Applications due: 3/15/73
Bachelor's by inst. 1300
Bachelor's by dept. 47
Master's by dept. 4

*Applications due: 4/1/73
Bachelor's by inst. 1021
Bachelor's by dept. 32
Master's by dept. 6

*Applications due: 5/15/73
Bachelor's by inst. 400
Bachelor's by dept. 25
Master's by dept. 5

*Applications due: 2/15/73
Bachelor's by inst. 2431
Bachelor's by dept. 29
Master's by dept. 13

*Applications due: 3/15/73
Bachelor's by inst. 448
Bachelor's by dept. 27
Master's by dept. 6

*Applications due: 5/15/73
Bachelor's by inst. 589
Bachelor's by dept. 23
Master's by dept. 8
Sam Houston State University, Huntsville 77340

DEPARTMENT OF MATHEMATICS
Glen E. Mattingly, Director

Fellowship (4) 2700-2925 9 50 15 Non-teaching
Teaching Fellowship (3) 2700-2925 9 50 6 Teaching
Graduate Assistantship (5) 1890-2520 9 50 15-20 Non-teaching
Junior College Intern (3) 250/mo. -270/mo.

Applications due: 2/15/73
Bachelor's by inst. 1255
Bachelor's by dept. 30
Master's by dept. 14

Southern Methodist University, Dallas 75222

DEPARTMENT OF MATHEMATICS
David W. Starr, Chairman

Teaching Assistantship (7) 2200-3300 9 6-9 Teaching
Scholarship (1) 1800 9 1800

Applications due: 4/15/73
Bachelor's by inst. 1353
Bachelor's by dept. 43
Master's by dept. 5
P&S 27. Total: 27

DEPARTMENT OF STATISTICS
D. B. Owen, Chairman

Fellowship (5) 2400-2800 12 5-20 Teaching
Teaching Fellowship (1) 4000 * 20 Teaching
Teaching Assistantship (10) 1800-3600 9 * 5-20 Teaching
Research Assistantship (2) 1800 9
Scholarship (tuition) (7) 9

*Paid to nine hours.

Southwest Texas State University, San Marcos 78666

DEPARTMENT OF MATHEMATICS
Robert Northcutt, Chairman

Teaching Assistantship (8) 3000 9 * 6-9 Teaching

Applications due: 2/15/73
Bachelor's by inst. 2145
Bachelor's by dept. 105
Master's by dept. 8

*Paid to nine hours.

Stephen F. Austin State University, Nacogdoches 75961

DEPARTMENT OF MATHEMATICS
W. I. Layton, Head

Teaching Assistantship (14) 1500-3000 9 130** 3-6

Applications due: 2/1/73*
Bachelor's by inst. 1201
Bachelor's by dept. 40
Master's by dept. 2

*Late applications will be considered if vacancies exist.
**Out-of-state tuition is waived.

Texas A & I University, Kingsville 78363

DEPARTMENT OF MATHEMATICS
Virgil C. Kowalik, Chairman

Teaching Assistantship (10) 2844 9

Applications due: 4/15/73
Bachelor's by inst. 1347
Bachelor's by dept. 20
Master's by dept. 10

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

414
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Texas Christian University, Fort Worth 76129

| Department of Mathematics | Applications due: 3/1/73 | Bachelor's by inst. | 736 |
| Teaching Fellowship (10) | 2400-3300 | 12 | 8 Teaching | Bachelor's by inst. 2845 |
| Teaching Assistantship (4) | 1800-2000 | 9 | 12 Teaching | Bachelor's by dept. 33 |
| Scholarship (3) | 3200-3400 | 9 | 20 Research | Master's by dept. 19 |

Texas Southern University, Houston 77004

| Department of Mathematics | Applications due: 6/1/73 | Bachelor's by inst. | 500 |
| Teaching Assistantship (2) | 2400 | 9 | 6 Teaching | Bachelor's by dept. 21 |

Texas Tech University, Lubbock 79409

| Department of Mathematics | Applications due: 4/15/73 | Bachelor's by inst. | 500 |
| Teaching Assistantship (60) | 2600-3400 | 9 | 50/sem. 6 Teaching | Bachelor's by dept. 15 |

University of Houston, Houston 77004

| Department of Mathematics | Applications due: 3/1/73 | Bachelor's by inst. | 2305 |
| Fellowship (3) | 2400-3600 | 9 | in-state 6 Teaching | Bachelor's by inst. 2305 |
| Teaching Assistantship (30) | 2700-3600 | 9 | in-state 6 Teaching | Bachelor's by dept. 88 |
| Research Assistantship (4) | 3000 | 12 | in-state 6 Teaching | Bachelor's by dept. 8 |
| Scholarship (2) | 3000-3600 | 9 | 15-20 Teaching | Master's by dept. 2 |

University of Texas at Arlington 76010

| Department of Mathematics | Applications due: Varies | Bachelor's by inst. | 1650 |
| Fellowship (18) | 2700 | 9 | 6 Teaching | Bachelor's by inst. 1650 |
| Teaching Assistantship (4) | 2700 | 9 | 6 Teaching | Bachelor's by dept. 158 |

DEPARTMENT OF INTERFACE ENGINEERING

| Bachelor's by dept. | 1650 |
| Teaching Assistantship (10) | 2700-3000 | 9 | 20 Teaching | Master's by dept. 16 |
| Research Assistantship (8) | 2700-3600 | 12 | 20 Research | Master's by dept. 7 |


A&ENT 2, A&FA 4, CS 2, Total: 8

Bachelor's by inst. 2397
Master's by dept. 2

P&S 13. Total: 13

*Nine month assistantship is guaranteed; 12 month normally available.
University of Texas at Austin 78712

DEPARTMENT OF MATHEMATICS
Leonard Gillman, Chairman

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<th>TUITION</th>
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DEPARTMENT OF COMPUTER SCIENCES
J. C. Browne, Chairman

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DEPARTMENT OF GENERAL BUSINESS
Gaylord A. Jentz, Chairman

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University of Texas at El Paso 79968

DEPARTMENT OF MATHEMATICS
Carl E. Hall, Chairman

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DEPARTMENT OF STATISTICS
H. Gill Hilton, Chairman

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*All Teaching Assistants pay $130 in fees but out-of-state students do not pay out-of-state tuition.

West Texas State University, Canyon 79105

DEPARTMENT OF MATHEMATICS
Hollis L. Cook, Head

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University of Utah, Salt Lake City 84112

DEPARTMENT OF MATHEMATICS
C. E. Burgess, Chairman

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UTAH
Utah State University, Logan 84321

DEPARTMENT OF MATHEMATICS
Lawrence O. Cannon, Head

Teaching Assistantship (16) 3500–4000 9 5–10 Teaching
Research Assistantship (1) 1200 9

DEPARTMENT OF APPLIED STATISTICS AND COMPUTER SCIENCE
Rex L. Hurst, Head

Teaching Assistantship (2) 2200–2800 9 438–948 20
Research Assistantship (4) 2200–2800 9 438–948 20

VERMONT

University of Vermont, Burlington 05401

DEPARTMENT OF MATHEMATICS
N. James Schoonmaker, Chairman

Fellowship (5) 1000 9
Teaching Fellowship (13) 2600 9 6 Teaching
Research Assistantship (2) 2600 9 20 Research

VIRGINIA

College of William and Mary, Williamsburg 23185

DEPARTMENT OF MATHEMATICS
Thomas L. Reynolds, Chairman

Fellowship (2) 500–3000 9 *
Graduate Assistantship (5) 2700 9 10 Non-teaching

Madison College, Harrisonburg 22801

DEPARTMENT OF MATHEMATICS
W. M. Sanders, Head

Teaching Assistantship (6) 3000 9 600 3–6 Teaching

Radford College, Radford 24114

DEPARTMENT OF MATHEMATICS AND STATISTICS
Joseph C. Nichols, Chairman

Fellowship (2) 1200–1800 9 414
Teaching Assistantship (3) 1000 9 414 10
Scholarship (2) 1050 9 414 20
House Fellowships (2) 2600 12 20

University of Virginia, Charlottesville 22903

DEPARTMENT OF MATHEMATICS
Kevin McCrimmon, Chairman

Fellowship (17) 800–3500 633–1282 Research
Teaching Assistantship (20) 1875–3750 9 633–1282 6 Teaching
Research Assistantship (5) 235–1500 9 633–1282 Research

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTER SCIENCE
Robert H. Owens, Chairman

Fellowship (10) 2200–2400 9 597
Teaching Assistantship (8) 3000–3300 9 597 15–20
Research Assistantship (8) 3000–3300 9 597 15–20

Applications due: 4/1/73
Applications due: 5/1/73
Applications due: 3/1/73
Applications due: 3/12/73
Applications due: 4/1/73
Applications due: 3/1/73
Applications due: 2/1/73
Applications due: 2/1/73

Bachelor's by inst. 1503
Bachelor's by dept. 9
Master's by dept. 8
Bachelor's by inst. 1503
Bachelor's by dept. 17
Master's by dept. 7
Bachelor's by inst. 1100
Bachelor's by dept. 55
Master's by dept. 5
Bachelor's by inst. 804
Bachelor's by dept. 50
Master's by dept. 3
Bachelor's by inst. 754
Bachelor's by dept. 24
Master's by dept. 4
Bachelor's by inst. 800
Bachelor's by dept. 30
Master's by dept. 4
Bachelor's by inst. 1421
Bachelor's by dept. 26
Master's by dept. 19
A&NT 1, G&T 11, A&FA 4, P&S 1. Total: 17
Bachelor's by inst. 1421
Bachelor's by dept. 3
Master's by dept. 7
CS 2, AM 3. Total: 5

*$353/semester for residents, $888 for nonresidents. Part time students, (less than 9 semester hours) pay $25/ semester hour.
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**Virginia Commonwealth University, Richmond 23220**

DEPARTMENT OF MATHEMATICAL SCIENCES

William A. Glynn, Chairman

Teaching Assistantship (8-10) 3000-3200 9 430 6 Tutorial

**Virginia Polytechnic Institute and State University, Blacksburg 24061**

DEPARTMENT OF MATHEMATICS

C. Wayne Patty, Head

Fellowship (2) 3400-2800 12
Teaching Assistantship (40) 3195-3600 9 687 6 Teaching

DEPARTMENT OF COMPUTER SCIENCE

Bruce J. Klein, Acting Head

Teaching Assistantship (6) 355/mo. - 460/mo. 9 510 20 Teaching, Assisting Research
Research Assistantship (2) 355/mo. - 460/mo. 9 510 20 Assisting in Research

DEPARTMENT OF STATISTICS

Clyde Y. Kramer, Acting Head

Fellowship (10) 2400-2800 12
Teaching Assistantship (7) 3465-3735 9 229/qtr. 6 Teaching
Research Assistantship (4) 3465-3735 9 229/qtr. 20 Research

**Central Washington State College, Ellensburg 98926**

DEPARTMENT OF MATHEMATICS

Robert Y. Dean, Chairman

Teaching Assistantship (4) 1350-2700 9 185/qtr. 20 Teaching

**Eastern Washington State College, Cheney 99004**

DEPARTMENT OF MATHEMATICS

Hugh D. Sullivan, Chairman

Teaching Assistantship (6) 2700 9 15-20

**University of Washington, Seattle 98195**

DEPARTMENT OF MATHEMATICS

Robert M. Blumenthal, Chairman

Fellowship (10) 2400-5100 12
Teaching Assistantship (50) 3619-3798 9 624 20* Teaching Research
Research Assistantship (4) 3195-3708 9 624

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

**BIOMATHEMATICS GROUP**

Richard Kronmal, Acting Chairman

Fellowship (26) 2400-2800 9
Teaching Assistantship (16) 310/qtr. * 10 Teaching
Research Assistantship (2) 355/mo. * 20 Research

*$208 in-state per quarter; $647 out-of-state per quarter.

**University of Washington, Seattle 98195**

DEPARTMENT OF COMPUTER SCIENCE

Jerre D. Noe, Chairman

Teaching Assistantship (4) 3519-4077 9 208/qtr. 6 Teaching
Research Assistantship (14) 3195-3708 9 208/qtr. 5 Research

**WASHINGTON**

Bachelor's by inst. 1797

Bachelor's by dept. 7

Bachelor's by dept. 2118

Bachelor's by dept. 5

Bachelor's by dept. 20

Bachelor's by dept. 2118

Bachelor's by dept. 5

Bachelor's by dept. 13


A&NT 1, G&T 4, A&FA 1, AM 2. Total: 8


P&S 17. Total: 17

Bachelor's by inst. 2018

Bachelor's by dept. 30

Master's by dept. 5

Bachelor's by inst. 1589

Bachelor's by dept. 68

Master's by dept. 4

Bachelor's by inst. 5787

Bachelor's by dept. 156

Master's by dept. 24


A&NT 7, G&T 15, L 1, A&FA 14, CS 1, AM 2, Other 1. Total: 41

Master's by dept. 2


P&S 4. Total: 4

Master's by dept. 4


CS 11. Total: 11
CENTER FOR QUANTITATIVE SCIENCE IN FORESTRY, FISHERIES AND WILDLIFE

Applications due: 3/1/73

Benjamin A. Jayne, Director

Fellowship (5)  4260  12  312
Teaching Assistantship (3)  3519  9  624
Research Assistantship (15)  4260  12  312

*Resident rate.

Washington State University, Pullman 99163

DEPARTMENT OF PURE AND APPLIED MATHEMATICS

Applications due: 3/1/73

T. G. Ostrom, Acting Chairman

Teaching Assistantship (29)  3528-3695  9  312/sem.  20

DEPARTMENT OF COMPUTER SCIENCE

Applications due: 3/1/73

Otis W. Rechard, Chairman

Teaching Assistantship (16)  852-3694, 50  9  312  5-20
Research Assistantship (6)  824.67-4032  12  312  5-20
Staff Assistantship (10)  1007.93-4031, 50  11  312  5-20

Western Washington State College, Bellingham 98225

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Applications due: 4/1/73

Albert J. Froderberg, Chairman

Teaching Assistantship (13)  2790  9  185  one course

Marshall University, Huntington 25701

DEPARTMENT OF MATHEMATICS

Applications due: 5/1/73*

John W. Hogan, Chairman

Teaching Assistantship (4–7)  1800–2400  9  20

*Late applications will be considered.
**Tuition is waived. A student activity fee must be paid.

West Virginia University, Morgantown 25606

DEPARTMENT OF STATISTICS AND COMPUTER SCIENCE

Applications due: 3/15/73

Stanley Weurden, Chairman

Teaching Assistantship (8)  9  *  20
Research Assistantship (2)  3200-3600  12  *  20

*Students on assistantship must pay $21 per semester student fee.

West Virginia

Marquette University, Milwaukee 53233

DEPARTMENT OF MATHEMATICS

Applications due: 3/1/73

C. C. Braamschweiger, Chairman

Teaching Assistantship (11)  2400-2900  9  12–20  Teaching
Research Assistantship (1)  2400–2600  9  12–20  Teaching
NSF Traineeship (1)  2400–2800  12  12–20  Research

Wisconsin
<table>
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<tr>
<th>University of Wisconsin, Madison 53706</th>
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<tr>
<td>Michael N. Bleicher, Chairman</td>
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<tr>
<td>Fellowship (21)**</td>
<td>4070*** 9-12 Varies 1/2 time Teaching</td>
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<td>3525-4392 9 Research towards Ph. D.</td>
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<tr>
<td>Research Assistantship (12)</td>
<td>3267 9 1/2 time Research A&amp;NT 27, G&amp;T 26, I 6</td>
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<td>MRC Regular (5)</td>
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<td>MRC R. E. Langer (2)</td>
<td>4400-4800# 12 Research towards Ph. D.</td>
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<td>Fellowship (3)</td>
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<td>MATHEMATICS RESEARCH CENTER</td>
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<td>J. Barkley Rosser, Director</td>
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<td>Fellowship (10)</td>
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<td>*Stipends increased by $750 per each dependent. **In addition to stipend, MRC pays tuition and fees.</td>
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<td>Lawrence Wahlstrom, Chairman</td>
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<td>Fellowship (1)</td>
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<td>*Resident $600 per academic year, subject to increase; nonresident $2100.</td>
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<td>Richard L. Gantes, Chairman</td>
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<td>NDEA Fellowship (4)</td>
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<td>University of Wisconsin-River Falls 54022</td>
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<td>in dollars</td>
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**University of Wisconsin-Whitewater 53190**

DEPARTMENT OF MATHEMATICS
C. E. Flanagan, Chairman

Graduate Assistantship (1) 2500 9 * 20

*Out-of-state remitted.

**WYOMING**

**University of Wyoming, Laramie 82070**

DEPARTMENT OF MATHEMATICS
Joseph M. Martin, Head

Applications due: 2/15/73

Fellowship (1) 6000-8000 12 * 20 Research

Teaching Assistantship (21) 2898-3861 9 * 6-8 Teaching

*Students pay a fee of $54.50.

**CANADA**

**Acadia University, Wolfville, Nova Scotia**

DEPARTMENT OF MATHEMATICS
K. D. C. Haley, Head

Applications due: 4/1/73

Fellowship (5) 2150-2700 9 550 6

**Carleton University, Ottawa, Ontario**

DEPARTMENT OF MATHEMATICS
V. Dlab, Chairman

Applications due: 2/15/73

Fellowship (2) 2250-2850 12 653

Teaching Fellowship (2) 4000-4500 12 653 6 Teaching

Teaching Assistantship (5) 1800-2400 9-12 653 6-8 Teaching

Research Assistantship (10) 1000-3360 12 653 0-6 Research

Scholarship (8) 3200-4800 12 653 0-6 Teaching

Combined Research Teaching (15) 3300-4500 12 653 3-9 Teaching

**Dalhousie University, Halifax, Nova Scotia**

DEPARTMENT OF MATHEMATICS
A. J. Tingley, Chairman

Applications due: 4/1/73

Teaching Fellowship (1) 3800-5500 12 725 7

Teaching Assistantship (17) 1975-3925 12 725

Scholarship (9) 3800-5500 12 725

**Lakehead University, Thunder Bay, Ontario**

DEPARTMENT OF MATHEMATICAL SCIENCES
John H. M. Whitfield, Chairman

Applications due: 8/73

Teaching Assistantship (8) 1600-4000 12 635 4-15

**McGill University, Montreal, Quebec**

DEPARTMENT OF MATHEMATICS
E. Rosenthal, Chairman

Applications due: 3/1/73

Fellowship (5) 2000-3600 9 652

Teaching Assistantship (30) 2750-5500 9 652 3-6

Research Assistantship (30) 2000-3180 12 652 6

Demonstrator (70) 425-1500 7 652 3-6

**McMaster University, Hamilton, Ontario**

DEPARTMENT OF MATHEMATICS
T. Husain, Chairman

Applications due: 3/73

Teaching Assistantship (15) 1800-4300 12 10

421
<table>
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<td><strong>Memorial University of Newfoundland, St. John's, Newfoundland</strong></td>
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<td><strong>Queen's University at Kingston, Kingston, Ontario</strong></td>
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<td>A. J. Coleman, Head</td>
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<td>*Teaching Assistantships of varying amounts are combined with internally and externally awarded Fellowships, Scholarships and Research Assistantships. The total annual stipend does not normally exceed $4500.</td>
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<td>*Many extendable to 12 months with $1120 research assistantship.</td>
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<td><strong>Université Laval, Quebec, Quebec</strong></td>
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<td>Norbert Lacroix, Chairman</td>
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<td><strong>Université de Sherbrooke, Sherbrooke, Quebec</strong></td>
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<td>Jean-Pierre Samson, Chairman</td>
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<td><strong>University of Alberta, Edmonton, Alberta</strong></td>
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<td>S. G. Ghurye, Chairman</td>
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<td>Master's by dept.</td>
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<td>A&amp;NT 6, G&amp;T 6, A&amp;FA 4, P&amp;S 1, AM 2, Other 1, Total: 20</td>
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<td>A. Wouk, Chairman</td>
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University of British Columbia, Vancouver, British Columbia

DEPARTMENT OF MATHEMATICS
R. D. James, Head

Fellowship (5) 2000-3200 9-12 455 5-10 Tuition, grading
Teaching Assistantship (45) 1500*-3000 9 455 Research
Research Assistantship (25) 280-1120 1-4

Applications due: 3/1/73 Bachelor's by inst. 3300
Bachelor's by dept. 100
Master's by dept. 10
Ph. D. (1969-1971 incl.) A&NT 7, G&T 2, L 1,
A&FA 14, P&S 1, AM 1. Total: 26

*$1500 teaching assistantships are primarily for students with concurrent fellowships.
**Available in summer to landed immigrants and Canadian citizens.

DEPARTMENT OF COMPUTER SCIENCE
J. E. L. Peck, Head

Fellowship (5) 2500-3800 12 455*
Teaching Assistantship (15) 2810 8 455* 12
Research Assistantship (10) 2240 8 455* 12
Summer Research Grant (15) 1120-1400 4

Applications due: 4/1/73 Bachelor's by dept. 64
Master's by dept. 12

University of Calgary, Calgary, Alberta

DEPARTMENT OF MATHEMATICS, STATISTICS AND COMPUTING SCIENCE
H. K. Farahat, Head

Teaching Assistantship (30) 2800-3800 8 12 Teaching, Grading
Research Assistantship (5) 1800-2600 8

Applications due: 4/30/73 Bachelor's by inst. 1838
Bachelor's by dept. 93
Master's by dept. 6
Ph. D. (1969-1971 incl.) G&T 1, A&FA 3, CS 2,
Other 1. Total: 7

University of Manitoba, Winnipeg, Manitoba

DEPARTMENT OF MATHEMATICS AND ASTRONOMY
N. S. Mendelsohn, Head

Fellowship (8) 2000-3000 8 425 Demonstrating
Teaching Fellowship (20) 3000-4000 12 425 Demonstrating
Teaching Assistantship (10) 2000 15 425 Demonstrating
Summer Research (20) 1000 3

Applications due: 3/15/73 Bachelor's by inst. 2200
Bachelor's by dept. 125
Master's by dept. 7

DEPARTMENT OF STATISTICS
B. K. Kale, Head

Fellowship (1) 2300 8 425-450 Lab Demonstration
Teaching Assistantship (16) 1600-2120 8 425-450 6-8 Lab Demonstration

Applications due: 3/31/73 Bachelor's by inst. 2200
Bachelor's by dept. 13
Master's by dept. 7

University of New Brunswick, Fredericton, New Brunswick

DEPARTMENT OF MATHEMATICS
Brian Tupper, Head

Fellowship (10) 2000-2500 9 500 6 Grading
Teaching Fellowship (1) 2500 9 500 3 Teaching
Research Assistantship (6) 1000-2400 9 500 6 Research

Applications due: 3/1/73 Bachelor's by inst. 1225
Bachelor's by dept. 16
Master's by dept. 2
Ph. D. (1969-1971 incl.) Other 1. Total: 1

University of Ottawa, Ottawa, Ontario

DEPARTMENT OF MATHEMATICS
Romri Vaillancourt, Acting Chairman

Teaching Fellowship (8) 2400-2500 12 700 2 Demonstrating
Research Assistantship (1) 4500-4900 9 5 Teaching
Scholarship (1) 2400-3500 12 700 3 Teaching
Post Doctoral Fellowship (1) 6000-7500 12

Applications due: 4/15/73 Bachelor's by inst. 2191
Bachelor's by dept. 28
Master's by dept. 5
Total: 3
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<td>Bachelor's by dept.</td>
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<td>Louis G. Birta, Chairman</td>
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**University of Saskatchewan, Regina, Regina, Saskatchewan**

| DEPARTMENT OF MATHEMATICS | Applications due: 7/14/73 | Bachelor's by inst. | 500 | Bachelor's by dept. | 50 | Master's by dept. | 3 | Ph. D. (1969-1971 incl.) | G&F 1. Total: 1 | | | | | | | | | | | | |
| Teaching Fellowship (2) | 4400 | 12 | 425 | 5 Teaching | | | | | | | | | | | | | | | | | | |

**University of Saskatchewan, Saskatoon, Saskatchewan**

| Teaching Assistantship (10) | 3500 | 12 | 450 | 3–4 | | | | | | | | | | | | | | | | | | |

**University of Toronto, Toronto, Ontario**

| Teaching Assistantship and Research Assistantship (25) | 3850–4000 | 12 | 555 | 4 Tutoring | | | | | | | | | | | | | | | | | | |
| Scholarship (40) | 3200–6300 | 12 | 555 | | | | | | | | | | | | | | | | | | |

DEPARTMENT OF COMPUTER SCIENCE

| Fellowships (47) | 2250–5500 | 12 | 555 | 4 Research | | | | | | | | | | | | | | | | | | |
| Teaching Assistantship (45)** | 300 | 8 | 555 | 4 Tutoring, Grading Research | | | | | | | | | | | | | | | | | | |
| Research Assistantship (50) | 3300 | 12 | 555 | | | | | | | | | | | | | | | | | | |

*December 15 for NRC fellowships.

**A teaching assistantship may be held together with a research assistantship or with certain fellowships.

**University of Waterloo, Waterloo, Ontario**

| W. F. Forbes, Dean | | | | | | | | | | | | | | | | | | | | | | | | |
| Fellowship (60) | 3200–5500 | 12 | 878 | 5–10 Marking, tutoring, lecturing | | | | | | | | | | | | | | | | | | |
| Teaching Fellowship (230) | 2400–6200 | 8–12 | 878 | | | | | | | | | | | | | | | | | | |
| Scholarship (140) | 3180 | 12 | 878 | 5–10 Marking, tutoring, lecturing | | | | | | | | | | | | | | | | | | |
| Scholarship (15) | 1000–2000 | 8–12 | 878 | | | | | | | | | | | | | | | | | | |

DEPARTMENT OF COMBINATORICS AND OPTIMIZATION

| G. Berman, Chairman | | | | | | | | | | | | | | | | | | | | | | | | |
| Teaching Fellowship (90) | 2400 | 12 | 900 | 4–5 Grading | | | | | | | | | | | | | | | | | | |
| Teaching Assistantship (2) | 2400 | 9 | | 3 Teaching | | | | | | | | | | | | | | | | | | |
| Research Assistantship (5) | 1800–3200 | 12 | 5 Research | | | | | | | | | | | | | | | | | | |
| Bursary (3) | 2000 | 9 | | | | | | | | | | | | | | | | | | |

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

<p>| D. Borwein, Head | | | | | | | | | | | | | | | | | | | | | | | | |
| Teaching Assistantship (9) | 1500–2400 | 8–12 | 310.50/term | 3–6 Tutoring, Grading | | | | | | | | | | | | | | | | | | |
| Research Assistantship (5) | 3180 | 8–12 | 310.50/term | 1–6 Research | | | | | | | | | | | | | | | | | | |
| Scholarship (10) | 1500–5300 | 8–12 | 310.50/term | | | | | | | | | | | | | | | | | | |</p>
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<th>TUITION</th>
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II. STIPENDS FOR STUDY AND TRAVEL

Graduate Support

Ames Laboratory. Graduate assistantships in applied mathematics and computer science. Direct inquiries to Dr. Clair G. Maple, Chief, Mathematics and Computer Science Division, Ames Laboratory of the U.S. Atomic Energy Commission, Iowa State University, Ames, Iowa 50010.

Center for Naval Analyses. 1972 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 Mr. Richard M. Doolittle, 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 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. Kent 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 or administration in colleges and universities. Open to men and women less than thirty-five years of age with a minimum of one year of full-time graduate study in a doctoral program at the time of application. A maximum of fifty awards is made. Information is available from the Director of the Kent Fellowship Program, 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 in a number of ways, including fellowships and teaching assistantships. 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 Sr. Mary O'Rourke, Saint Mary College, Leavenworth, Kansas 66048. Application form and credentials should be submitted before February 1, 1973. Announcement of awards will be made by April 1, 1973.

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

Hughes Aircraft Company. Doctoral, Engineer, and Master's Fellowship Programs. Academic training leading to these degrees and correlated experience developed through professional work assignments. Over 100 new awards each year in various fields of engineering, mathematics, and physics. Value of awards, including salary associated with work assignments, ranges from approximately $8,500 to $13,000 annually. Write to Scientific Education Office, Hughes Aircraft Company, P.O. Box 90515, Los Angeles, California 90009.
Humanities Fund, Inc. A Boris A. Bakhmeteff Research Fellowship will be available for the 1972-1973 academic year in an amount up to $4,500. It is intended to be a specific contribution for a definite research project of an original and creative nature in the general field of mechanics of fluids. The recipient shall be a graduate student who is a candidate for the master's or doctor's degree. He shall have no commitment that will interfere with his research work and study on a full-time basis. It is expected that the stipend will be applied principally toward fees, tuition, and subsistence. The study and research may be undertaken at an institution of the Fellow's choice. In the judgment of the committee, the adequacy of the facilities of the institution will have substantial weight in the selection of the Fellow. Application forms should be filed by February 15, 1973, with Professor James R. Steven, Department of Civil Engineering, School of Engineering, The City College of The City University of New York, New York, New York 10031.

Johns Hopkins University. USPHS traineeships 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 March 1. 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 National Bureau of Standards, Oak Ridge National Laboratory, Puerto Rico Nuclear Center, Savannah River Laboratory, and Savannah River Ecology Laboratory for thesis research. An annual stipend payment of $3,000 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 Murray Eisenberg, Acting Head, Department of Mathematics and Statistics, University of Massachusetts, Amherst, Massachusetts 01002.

Mathematics Research Center. For support of mathematical research of interest to the U.S. Army. Predoctoral fellowships for U.S. citizens for graduate study in any of the Department of Mathematics, Computer Sciences, Statistics, or School of Business and College of Engineering, at the University of Wisconsin. The University of Wisconsin is an equal opportunity employer. For information write to J. Barkley Rosser, Director, Mathematics Research Center, University of Wisconsin, Madison, Wisconsin 53706.

National Defense Student Loan Program. Fields unrestricted. Student must be carrying at least one half the normal full-time academic workload as determined by the institution where he is or will be enrolled. Funds are administered by participating 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 Assistance, Bureau of Higher 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 November 27, 1972. Further information and application materials may be obtained from the Fellowship Office, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418.
National Science Foundation. Graduate Traineeships are being phased out and only continuation traineeships are budgeted for 1972-1973. Information may be obtained from Deans of Graduate Schools of doctoral-granting institutions. Summer Traineeships for Graduate Teaching Assistants have been suspended.


RCA Fellowships. Grants are for graduate study in electrical engineering, electronics, and physics. (RCA-NBC Fellowships are available in journalism and telecommunications.) Candidates are selected by appropriate officials in designated universities. Although appointments are for one year, RCA Fellows are eligible for reappointment. 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 15, 1973, for 1973-1974 academic year. Further information and application forms may be obtained from the Office of Academic Studies, Smithsonian Institution, Washington, D.C. 20560.

U.S. Steel Foundation. Fellowships. A bachelor's degree and U.S. citizenship are required. Applicant must usually be a candidate for a doctor's degree, but master's degree candidates may also be eligible. Forty-nine two-year awards are made through forty-nine participating colleges and universities for study in the natural and physical sciences, engineering, business administration, humanities, and social sciences. General information may be obtained from the Executive Director, United States Steel Foundation, Inc., 600 Grant Street, Pittsburgh, Pennsylvania 15230.

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, 1973. Write to Zonta International, 59 East Van Buren Street, Chicago, Illinois 60605.

**Postdoctoral Support**

Air Force Office of Scientific Research. Research Contracts and Grants. AFOSR supports research in the mathematical and information sciences under contracts and grants with educational and nonprofit institutions, and under contracts with industrial laboratories. Interested mathematicians and other scientists are encouraged to submit proposals, through their organizations, for research in mathematical and information science fields in which they specialize. 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 Directorate of Mathematical and 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. Applicants should state in some detail their field of specialization. Annual stipend for these appointments is $13,500 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 606, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. Deadline for submission of applications is January 15, 1973. Inquiries cannot be processed after January 5, 1973.

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. Awards made in October, December, February, April, and June. 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. Limited number of postdoctoral appointments and temporary appointments for faculty members in many fields of applied mathematics and the computer sciences. Write to Ronald A. Johns, Professional Placement, MGR, Argonne National Laboratory, Department A, 9700 South Cass Avenue, Argonne, Illinois 60439.

Army Research Office--Durham. Research grants and contracts for basic research in mathematics, engineering, and physical and environmental sciences. Write to Chief Scientist, U.S. Army Research Office--Durham, 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 $6,304 to $8,984 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 Officer, 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. Closing 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.

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 $10,500. 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 11, 1973.

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 1973-1974 must be submitted before January 1, 1973. 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.

*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. John Welty, Economic Research Support Staff, Bureau for Program and Policy Coordination, Agency for International Development, Department of State, Washington, D.C. 20523.

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 $11,000 for the regular academic year. Inquiries and applications should be addressed to Professor Salomon Bochner, Chairman, Department of Mathematics, Rice University, Houston, Texas 77001.

J. Willard Gibbs Instructorships. Offered by Yale University to young men and women with the doctorate who show definite promise in research in pure mathematics. Appointments are for two years at a salary of $11,500 for the academic year. Each recipient will be given an allowance of up to $200 toward the actual expense of moving his 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 1, 1973. Yale University is an equal opportunity employer.

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 coun-

*No current information.
tries and territories of the Western Hemisphere and of the Philippines. Nominations are made by the Committee of Selection. Approximately 350 awards are made, averaging $10,000 in 1972. For more information write to President, John Simon Guggenheim Memorial Foundation, 90 Park Avenue, New York, New York 10016.

The Hebrew University of Jerusalem. Postdoctoral Fellowships. Fellowships in the fields of mathematics and computer science. Provides for tax-free salary of 10,000 Israeli pounds, and usually allows for round-trip passage. No financial assistance to accompanying dependents. 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 during the years of 1971-1972, and for those who will complete all requirements for the Ph. D. before the autumn of 1973. 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, 1972.

E. R. Hedrick Assistant Professorships. The Department of Mathematics of the University of California, Los Angeles, has established two assistant professorships for the year 1973-1974. These awards will be made to young mathematicians with doctor's degrees who show strong promise in research. Appointment will be for two years at an annual salary of $12,500, plus a summer research supplement of $2,500. The teaching load is three hours per week for two quarters and six hours per week for one quarter. One course may be an advanced course in the candidate's research area. Requests for application forms should be sent to the Chairman, Department of Mathematics, University of California, Los Angeles, 405 Hilgard Avenue, Los Angeles, California 90024. Deadline for applications is January 15, 1973.

T. H. Hildebrandt Research Instructorships. These instructorships in mathematics at The University of Michigan are designed to provide promising young mathematicians with favorable circumstances for the development of their research talents. Preference will be given to those having their Ph. D. for less than two years. Several of these research instructorships are expected to be available for the coming academic year. The teaching load averages one and one-half courses per semester and part of the teaching load consists of an advanced course. The stipend will be at least $11,000 for the academic year 1973-1974, with a good possibility of additional income during the summer. Research Instructors will be appointed for two years, and may then be considered for regular faculty appointments. Applicants must have completed all requirements for the Ph. D. degree when the term of appointment begins. Each applicant must submit a curriculum vitae which includes his educational background and a brief outline of the research problems of interest to him, plus three letters of recommendation which should contain comments on the applicant's mathematical promise, teaching ability, and personality. First preference will be given to applications completed by January 15, 1973. Appointments will be announced early in February. Applications should be made to the 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 $11,300. 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 annual 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 William P. Ziemer, Chairman, Department of Mathematics, Swain Hall East, Indiana University, Bloomington, Indiana 47401. Preference will be given to applications received before January 31, 1973.

IBM Thomas J. Watson Research Center. Postdoctoral fellowships. These fellowships provide for young scientists of outstanding ability an opportunity to pursue and broaden their scholarship while in residence at the Research Center. A candidate is normally expected to have received his doctorate within the five years before the start of his fellowship. The duration of each fellowship will be eleven months. The stipend will generally be in the range of $18,000-$22,000, depending on qualifications. Completed applications must be received by January 15, 1973. At most, two fellowships will be awarded. Notification will be made by March 15, 1973.

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 1973-1974. 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, 1973, or as soon thereafter as possible.
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. Write to Recruiting Department, Los Alamos Scientific Laboratory, University of California, P. O. Box 1663, Los Alamos, New Mexico 87544.

Mathematics Research Center. For support of mathematical research of interest to the U. S. Army. Visiting research member appointments at all levels from postdoctoral up. The University of Wisconsin is an equal opportunity employer. For information write to J. Barkley Rosser, Director, Mathematics Research Center, University of Wisconsin, Madison, Wisconsin 53706.

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 $12,000, 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 7 on forms obtained from the Department, 2-236, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139.

National Academy of Sciences. Postdoctoral fellowships. Under a grant from the Alfred P. Sloan Foundation, approximately eight scientists will be selected to study aspects of science and public policy while participating in staff work of their choosing within the complex of the National Academy of Sciences, the National Academy of Engineering, the Institute of Medicine, and the National Research Council. Four fellowships will be awarded for the 1972–1973 academic year, and eight each year thereafter. Fellows will be chosen by a committee of the Academies upon recommendation by designated individuals. Further information can be obtained from the National Academy of Sciences.

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, in some cases, 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; Manned Spacecraft Center, Houston, Texas; Marshall Space Flight Center, Huntsville, Alabama; and Wallops Station, 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 $13,500. Senior stipend variable. Deadlines for receipt of completed applications in 1973 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.

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 $13,000. 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, 1973. No materials will be distributed after January 5, 1973.

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, 1973. Appointments will be made in April for tenure to begin on or before July 1, 1973. Stipends, which are subject to income tax, will vary according to the type of appointment, but will not be less than $13,000. 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 Grants. Proposals are accepted at any time, but those which contain request(s) for support during a given summer should be received by the Foundation at least six months in advance of the expected starting date of support, and, ideally, by November 1 of the
Naval Ordinance Laboratory. Postdoctoral Research Associateships. Awards are made in several fields, including mathematics. Tenable in Silver Spring, Maryland. Applicants should state, in some detail, their field of specialization. Annual stipend for these appointments is not less than $13,000. 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.


Naval Research Laboratory. Postdoctoral and Senior Postdoctoral Research Associateships. Awards are made in several fields, including mathematics. Applicants should state in some detail their field of specialization. Annual stipend for these appointments is $13,500 for the recent recipient of the doctorate with an adjustment made for the senior candidates. Applications must be postmarked not later than January 15, 1973. 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.

Naval Undersea Center. Postdoctoral Research Associateships. Awards are made in several fields including mathematics. Tenable in San Diego and Pasadena, California. Applicants should state in some detail their field of specialization. Annual stipend for these appointments is not less than $13,000. 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, 1973. No application materials will be distributed after January 5, 1973.

Benjamin Pierce Lectureships. Rank of Assistant Professor. The appointments are for three years with a starting salary of $10,000 (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, 1973.

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, 630 Fifth Avenue, New York, New York 10020.

Smithsonian Institution. Fellowships. Appointments to those wishing to pursue postdoctoral research at the Smithsonian 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 less than six months. $10,000 stipend, plus research expense allowance. Generally limited to those having received the Ph.D., or its equivalent, within five years of commencing tenure at Smithsonian. Deadline for application is January 15, 1973, for 1973–1974 academic year. Further information and application forms may be obtained from the Office of Academic Studies, Smithsonian Institution, 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 have received their Ph.D. degree since, but no earlier than December 1, 1971, thereby enabling them to carry forward a research program. All requirements for the Ph.D. must be completed by September 1, 1973. At least one and not more than two Research Instructorships will be awarded for 1973–1974 with each appointment being for two years. The twelve-month stipend, beginning September 1973, is $15,600 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 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 22, 1973. Appointments will be made early in February.
Jacob David Tamarkin Instructorships. Offered by Brown University to promising young mathematicians. Appointments are for two years, with a salary of $10,000 for the academic year. Additional summer support can be arranged. Teaching load is usually light and consists of courses of more than routine interest. An applicant should have completed his doctorate by the time his appointment is to begin. In addition to a letter expressing his interest in a Tamarkin Instructorship, the applicant should have three letters of recommendation submitted for him to the Department of Mathematics by January 15, 1973. Applicants should write to the Chairman, Department of Mathematics, Brown University, Providence, Rhode Island 02912.

University of Tennessee. Postdoctoral Intern-Fellowships. Program designed to aid new doctoral graduates who have not found a permanent position for fall 1973, and to strengthen university's temporary teaching staff. Campuses at Chattanooga, Knoxville, Martin, Nashville, and Memphis Medical Units participate in program. Applicants advised to consult announcements being sent to graduate schools. Fellows will teach three-fourths of their time; university will consider them for permanent faculty at end of contract, or assist in job search. Eligibility restricted to those completing doctorate between September 1, 1972, and August 31, 1973. Letter of application, curriculum vitae, complete dossier should be sent after February 1, 1973, and no later than June 15, 1973, to Dr. Kenneth L. Knickerbocker, Vice-president for Academic Affairs, University of Tennessee, Knoxville, Tennessee 37916.

U.S. Army Natick Laboratories. Postdoctoral and Senior Postdoctoral Visiting Scientists Research Associateships. Awards made in several fields, including mathematics. Tenable in Natick, Massachusetts. Applicants should state, in some detail, their field of specialization and should indicate area of interest. Annual stipends for these appointments begin at $13,000. Senior stipend variable. More details regarding this program may be obtained from the Associateship Office, JH 606, Office of Scientific Personnel, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418. Deadline for receipt of completed applications in 1973 is January 15, with announcement of awards in April.

U.S. Department of Health, Education, and Welfare, National Institutes of Health. Supports postdoctoral and special fellows. Research in biostatistics, 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, Career Development Review Branch, Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014.

John Wesley Young Research Instructorships. Two instructorships are awarded by Dartmouth College each year. Teaching duties average six hours per week and are of a varied and nonroutine nature. The academic-year stipend may be supplemented by a summer research fellowship. The appointments are for two years and are not renewable. Applicants should write to J. Laurie Snell, Chairman, Department of Mathematics, Dartmouth College, Hanover, New Hampshire 03755.

Travel and Study Abroad

Alliance Française de New York. For study in France, a limited number of scholarships for all fields of study at the graduate level. Each scholarship is in the amount of $1,100. Applicants must be between the ages of 20 and 30 and have a working knowledge of French. Students currently enrolled in an American university should see the Fulbright Program Advisor on campus; students not currently enrolled in an American university should communicate with the Information and Reference Division, Institute of International Education, 809 United Nations Plaza, New York, New York 10017, or IIE regional offices in Atlanta, Chicago, Denver, Houston, Los Angeles, San Francisco, and Washington, D.C. Deadline for submission of applications is November 1.

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 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 Services 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 Committee on International Exchange of Persons, Senior Fulbright-Hays Program, 2101 Constitution Avenue, N.W., Washington, D.C. 20418.

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 Exchanges Board, 110 East 59th Street, New York, New York 10022.

Italian National Research Council. Fellowships. Twenty fellowships awarded to citizens of other countries for research in mathematics at Italian universities during the academic year 1973-1974. Monthly stipend of 180,000 Italian lire (approximately $300) for a maximum of twelve months; also reimbursement of travel expenses. Applications including date and place of birth, citizenship, residence; nature of proposed research; names of Italian mathematicians with whom the applicant would like to work; knowledge of Italian (if any) or other foreign languages; address, should be sent to Consiglio Nazionale delle Ricerche, Servizio Affari Scientifici e Tecnologici, Ufficio Attività di Ricerca, Sezione Borse di Studio, Piazzale delle Scienze 7, Rome, Italy. Deadline January 31, 1973. Further information may be obtained from Alessandro Figa-Talamanca, Istituto Matematico, Università di Genova, Via L. B. Alberti, 4, 16132-Genova, Italy.

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 1973-1974 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 subsistence 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: 12 South 12th Street, Philadelphia, Pennsylvania 19107; (3) South: Suite 912, 225 Peachtree Street, N.E., Atlanta, Georgia 30303; (4) Midwest: 33 North Dearborn Street, Chicago, Illinois 60602; (5) Pacific: 9th Floor, 120 Montgomery Street, San Francisco, California 94104.


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 $7,500 for a twelve-month tenure, $5,625 for a nine-month tenure, plus a dependency and travel allowance. Application deadline is October 23, 1972. For information and application material, write to NATO Postdoctoral Fellowship Program, Division of Graduate Education in Science, National Science Foundation, Washington, D.C. 20550.

North Atlantic Treaty Organization. Senior Fellowships in Science. Enable universities and non-profit 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 from the Division of Graduate Education in Science, National Science Foundation, Washington, D.C. 20550. Deadline for receipt of applications is January 21, 1973.

North Atlantic Treaty Organization. The NATO Science Committee makes a number of awards each year for training and education in operational research and related sciences: (1) Graduate Apprentice­ships in Operational Research. To enable young scientists to receive practical training in operational research at one of a number of NATO or national centers. Normal assignment is for two years, subject to satisfactory completion of the first year. Applicants need not have previous experience in operational research, but they should have a scientific background with a sound basic training in mathematics. The award is $4,500 per year, plus certain other expenses. (2) Study Visits. These awards are made to operational research scientists in NATO countries, who wish to make a "study visit" to a foreign country in order to receive advice and to discuss specific problems of immediate concern to them. (3) Visiting Experts. Provides support for a scientist who will act in an advisory capacity to a newly formed or developing operational research group in one of the NATO countries. (4) Science Fellowships. Awards are made for postgraduate academic training at overseas universities. Application forms and further details about these awards, together with information about the Science Committee's program of conferences in operational research, can be obtained from the Scientific Affairs Division (Operational Research), NATO, 1110 Brussels, Belgium.

Rotary Foundation. Graduate Fellowships and Undergraduate Scholarships. One academic year of study abroad for the 1973-1974 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, 1973, 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, 1973, 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, 1973.

"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 February 1. Write to Royal Norwegian Council for Scientific and Industrial Research, Gaustadalleen 30, Oslo, Norway.

Alexander von Humboldt Foundation Fellowships. These fellowships of 6 to 12 months are offered in order to pursue advanced academic research projects at a German university or research institute. Fields of research and citizenship are unrestricted. Amount of stipend: 'Forschungsstipendium' DM 1600. - monthly, 'Dozentenstipendium' DM 1900. - monthly; supplementary family allowances, travel expenses. An extension of the original award period is possible. Applicants should furnish proof of independent teaching experience at university level or research work (of at least two years if interested in a 'Forschungsstipendium' and at least five years if interested in a 'Dozentenstipendium'). They should hold a Ph. D., have sufficient knowledge of German and, as a rule, not be older than 38. Applicants for a 'Dozentenstipendium' should have outstanding academic publications to their credit. For further information write to Alexander von Humboldt-Stiftung, 53 Bonn-Bad Godesberg, Schillerstrasse 12, Germany.

*No current information.
*William and Mildred Zelosky Scholarships. Open to American and Polish men 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 the United States; U.S. citizenship is required for study in Poland. Write to Kosciuszko Foundation, 15 East 65th Street, New York, New York 10021.

Study in the U.S. for Foreign Nationals

Alliance Francaise 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, Alliance Francaise de New York, 22 East 60th Street, New York, New York 10022 or Alliance Francaise, 101 Boulevard Raspail, Paris 6ème, 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 Services Division, Institute of International Education, 809 United Nations Plaza, New York, New York 10017.) The number of grants for the academic year 1973-1974 will depend on funds available.

National Aeronautics and Space Administration. International University Fellowships in Space Science. Foreign nationals only. Level: graduate and postdoctoral. Candidates must be sponsored by their national or regional space research organization or national research councils, must have the equivalent of an earned Master of Science or Master of Engineering degree, and must intend to return to their own countries. Fields: all space sciences. Fellowships in the mathematical sciences tenable at 39 U.S. universities. Applications should be made to the national space research organization, national research council, or appropriate organization of the applicant's own country. Further information may be obtained from the Office of Scientific Personnel, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418.

Sources of Fellowship Information

Exchange Programs with Eastern Europe and the Soviet Union for 1972-1973, 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.


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, 1970. 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.


*No current information.
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. 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 reached 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.

Application for total exclusion of stipend from gross income

TO WHOM IT MAY CONCERN:

During the calendar year 19______ (name of student) served as a Research Assistant in the Department of ________ at _________ (university or college) from _________ to _________.

He was paid a stipend of $______ for his services. The funds were derived from ______ (description of grant/contract). 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 ________, (university or college), regardless of whether or not they are compensated for their services.

Application for partial exclusion from Federal Income Tax

TO WHOM IT MAY CONCERN:

During the calendar year 19______ (name of student) served as a ________ in the Department of ________ at _________ (university or college) from _________ to _________. He was paid a stipend of $_______. The funds were derived from _______ (description of grant/contract).

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, and (b) ______ percent of his time on degree requirements. The research or study which he performed under (b) met in part the requirements for his degree. Equivalent research is required for all students working for this same degree at ________, (university or college), 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 then requesting a partial exclusion for the time spent on degree requirements, it is suggested that the university 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, and on this a total exclusion could be requested.

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.
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