
Mathematics Opportunities

American Mathematical Society Centennial Fellowships

Invitation for Applications for Awards for 2001-02

Deadline December 1, 2000

The AMS Centennial Research Fellowship Program makes awards annually to outstanding mathematicians to help further their careers in research. Recently the AMS Council approved changes in the rules for the fellowships. From 1984 to 1996 the fellowship program was aimed at midcareer mathematicians. The changes adopted five years ago redirected the fellowship program toward recent Ph.D.'s. The eligibility rules are as follows.

Applicants must: (1) be citizens or permanent residents of a country in North America, (2) have held their doctoral degrees for at least two years at the time of the award, (3) not have permanent tenure, and (4) have held less than two years of research support at the time of the award. (Each year of a full-time teaching appointment with teaching load less than four [respectively five] courses per year on the semester [respectively quarter] system will count in this respect as one half year of research support.) Recipients may not hold the Centennial Fellowship concurrently with other research fellowships (e.g., Sloan Foundation Fellowships or National Science Foundation Postdoctoral Fellowships), they may not use the stipend solely to reduce teaching at the home institution, and they are expected to spend some of the fellowship period at another institution that has a stimulating research environment suited to the candidate's research development.

The stipend for fellowships awarded for 2001-02 is expected to be approximately \$39,000, with an additional expense allowance of about \$1,600. Acceptance of the fellowship cannot be postponed. A fellowship holder may use the stipend as full support for a year or may combine

it with half-time teaching and use it as half support over a two-year period.

The number of fellowships to be awarded is small and depends on the amount of money contributed to the program. The trustees have arranged a matching program from general funds in such a way that funds for at least one fellowship are guaranteed. Because of the generosity of the AMS membership, it has been possible to award four to five fellowships a year for the past six years. A list of previous fellowship winners can be found at <http://www.ams.org/secretary/prizes.html>.

Applications should include a short research plan describing both an outline of the research to be pursued and a program for using the fellowship, including institutions at which it will be used and reasons for the choices. The selection committee will base its decision on both the research potential of the applicant, based upon track record and letters of recommendation, and on the quality and feasibility of the research plan.

The deadline for receipt of applications is **December 1, 2000**. Awards will be announced in February 2001 or earlier if possible.

For application forms write to the Executive Director, American Mathematical Society, P. O. Box 6248, Providence, RI 02940-6248, or send electronic mail to ams@ams.org, or call 401-455-4106. Application forms are also available via the Internet at <http://www.ams.org/employment/>.

Please note that completed application and reference forms should not be sent to the AMS, but to the address given on the forms.

—AMS announcement

NSF Graduate Fellowships

The National Science Foundation (NSF) awards Graduate Research Fellowships to graduating seniors and first-year graduate students. These are three-year fellowships awarded to U.S. students for full-time graduate study at the institutions of their choice. The fellowships include a stipend, tuition coverage, and possible international travel allowances. Awards are made based on the candidates' intellectual merit and potential for research achievement.

More information and applications will be available early in August 2000 at <http://www.orau.org/nsf/nsffe1.htm>. Applications should be submitted online through NSF's FastLane system. The NSF anticipates several changes to the eligibility guidelines, and applicants are encouraged to read the guidelines carefully. Further information is also available from: NSF Graduate Research Fellowship Program, Oak Ridge Associated Universities, P. O. Box 3010, Oak Ridge, TN 37831-3010; telephone: 865-241-4300; fax: 865-241-4513; e-mail: nsfgrfp@orau.gov. The deadline for applications is **November 7, 2000**.

—Allyn Jackson

NSA Grant and Sabbatical Programs

The Mathematical Sciences Program of the National Security Agency (NSA) provides grants and sabbatical opportunities to support research by academic mathematical scientists.

The grant program offers funding in four categories: the Young Investigators' Grant; the Standard Grant; the Senior Investigators' Grant; and the Conferences, Workshops, and Special Situations Grant. The NSA makes grants to universities and nonprofit institutions to support self-directed research in the following areas of mathematics (including possible computational aspects): algebra, number theory, discrete mathematics, probability, and statistics. In addition, it supports research in the design and analysis of cryptographic algorithms. The deadline for submission of all grant proposals is **October 15, 2000**. Awards are generally made in the fall of the following year. The principal investigators to be supported by the grant must be U.S. citizens or permanent residents, and students and postdoctoral researchers to be supported must be U.S. citizens or permanent residents who intend to become citizens.

The NSA also accepts proposals for small grants for conferences, workshops, and special academic endeavors. Proposals for these may be submitted at any time and will be reviewed as they are received at NSA. Allow at least eight months for review, negotiation, and processing.

The sabbatical opportunities offered by the NSA provide support for academic mathematical scientists to visit the NSA for periods ranging from 9 to 24 months. The sabbaticals primarily involve cryptanalysis, but may also involve algebra, probability, statistics, number theory, and discrete mathematics. NSA provides visiting mathematicians with

funds to supplement their universities' stipends to at least equal their monthly salaries. A choice is offered between an allowance for moving expenses or a housing supplement. Applicants and their immediate family members must be U.S. citizens and must participate in a thorough, extensive screening process.

Further information may be obtained from the NSA's Web site, <http://www.nsa.gov/programs/msp/grants.html>. The postal address is: NSA Mathematical Sciences Program, National Security Agency, ATTN:R51A, Ft. George G. Meade, MD 20755-6000.

—From an NSA announcement

AWM Travel Grants for Women

The National Science Foundation (NSF) and the Association for Women in Mathematics (AWM) sponsor two travel grant programs for women mathematicians.

AWM Travel Grants enable women to attend research conferences in their fields, thereby providing scholars valuable opportunities to advance their research activities and their visibility in the research community. A Travel Grant provides full or partial support for travel and subsistence for a meeting or conference in the grantee's field of specialization.

AWM Mentoring Travel Grants are designed to help junior women develop long-term working and mentoring relationships with senior mathematicians. A Mentoring Travel Grant funds travel, subsistence, and other expenses for an untenured woman mathematician to travel to an institute or a department to do research with a specified individual for one month.

The final deadline for the Travel Grants program for 2000 is **October 1, 2000**; the deadlines for 2001 are **February 1, 2001**; **May 1, 2001**; and **October 1, 2001**. For the Mentoring Travel Grants program the deadline is **February 1, 2001**. For further information and details on applying, see the AWM Web site, <http://www.awm-math.org/travelgrants.html>; or telephone 301-405-7892; or send e-mail to awm@math.umd.edu. The postal address is: Association for Women in Mathematics, 4114 Computer and Space Sciences Building, University of Maryland, College Park, MD 20742-2461.

—From an AWM announcement

Call for Nominations for Waterman Award

Congress established the Alan T. Waterman Award in August 1975 to mark the twenty-fifth anniversary of the National Science Foundation (NSF) and to honor its first director. The annual award recognizes an outstanding young researcher in any field of science or engineering supported

by the NSF. In addition to a medal the awardee receives a grant of \$500,000 over a three-year period for scientific research or advanced study in the mathematical, physical, medical, biological, engineering, social, or other sciences at the institution of the recipient's choice.

Candidates must be U.S. citizens or permanent residents and must be thirty-five years of age or younger or not more than seven years beyond receipt of the Ph.D. degree by December 31 of the year in which they are nominated. Candidates should have demonstrated exceptional individual achievements in scientific or engineering research of sufficient quality to place them at the forefront of their peers. Criteria include originality, innovation, and significant impact on the field.

The call for nominations for the 2001 Waterman Award will begin in August 2000 and end on **October 31, 2000**. For more detailed information concerning the nomination procedures or to receive a nomination form, contact Susan E. Fannoney, telephone: 703-306-1096, or e-mail: sfannone@nsf.gov.

—From an NSF announcement