
Mathematics Opportunities

American Mathematical Society Centennial Fellowships

*Invitation for Applications for Awards for
2005–2006*

Deadline: December 1, 2004

The AMS Centennial Research Fellowship Program makes awards annually to outstanding mathematicians to help further their careers in research. The eligibility rules are as follows.

The primary selection criterion for the Centennial Fellowship is the excellence of the candidate's research. Preference will be given to candidates who have not had extensive fellowship support in the past. Recipients may not hold the Centennial Fellowship concurrently with another research fellowship such as a Sloan or NSF Postdoctoral Fellowship. Under normal circumstances, the fellowship cannot be deferred. A recipient of the fellowship shall have held his or her doctoral degree for at least three years and not more than twelve years at the inception of the award (that is, received between September 1, 1993, and September 1, 2002). Applications will be accepted from those currently holding a tenured, tenure-track, postdoctoral, or comparable (at the discretion of the selection committee) position at an institution in North America.

The stipend for fellowships awarded for 2005–2006 is expected to be \$62,000, with an additional expense allowance of about \$3,000. Acceptance of the fellowship cannot be postponed.

The number of fellowships to be awarded is small and depends on the amount of money contributed to the program. The Society supplements contributions as needed. At most, two fellowships will be awarded for the 2005–2006 academic year. A list of previous fellowship winners can be found at <http://www.ams.org/prizes-awards>.

Applications should include a cogent plan indicating how the fellowship will be used. The plan should include

travel to at least one other institution and should demonstrate that the fellowship will be used for more than reduction of teaching at the candidate's home institution. The selection committee will consider the plan in addition to the quality of the candidate's research and will try to award the fellowship to those for whom the award would make a real difference in the development of their research careers. Work in all areas of mathematics, including interdisciplinary work, is eligible.

The deadline for receipt of applications is **December 1, 2004**. Awards will be announced in February 2005 or earlier if possible.

Application forms are available via the Internet at <http://www.ams.org/employment/centflyer.html>. For paper copies of the form, write to the Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294; or send electronic mail to prof-serv@ams.org; or call 401-455-4107.

—AMS announcement

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 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, statistics, and cryptology. The NSA also accepts proposals for small grants for conferences, workshops, and special academic endeavors. Research grants are designed principally to provide summer salaries for professors and limited support for their graduate students. The deadline for submission of

all grant proposals is **October 15, 2004**. Grants begin in the fall of the following year.

The sabbatical opportunities offered by the NSA provide support for academic mathematical scientists to visit the NSA for periods ranging from nine to twenty-four months. Visitors' sabbatical stipends will be supplemented with funds to equal their regular 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. Because a complete background investigation is required, applications should be submitted well in advance of the requested starting date.

Further information may be obtained from the NSA's website: <http://www.nsa.gov/msp/index.cfm>. The telephone number is 301-688-0400, and the postal address is: Dr. Charles F. Osgood, NSA Mathematical Sciences Program and Mathematical Sabbatical Programs, National Security Agency, ATTN: R51A, Suite 6557, Ft. George G. Meade, MD 20755-6557.

—From an NSA announcement

NSF Distinguished International Postdoctoral Research Fellowships

The Distinguished International Postdoctoral Research Fellowships Program of the Mathematical and Physical Sciences (MPS) Directorate of the National Science Foundation (NSF) provides opportunities for postdoctoral investigators to conduct research projects abroad as MPS Distinguished International Postdoctoral Research Fellows (MPS-DRF).

The objective of the program is to provide talented recent doctoral recipients in the mathematical and physical sciences an effective means of establishing international collaborations in the early stages of their careers.

Applicants must be citizens or permanent residents of the United States who have fulfilled the requirements for the doctoral degree between June 1 of the year of submission and September 30 of the year following submission. NSF expects to fund up to twenty awards that will provide up to \$100,000 per year for up to twenty-four months.

The deadline for full proposals is **October 13, 2004**. For technical and scientific information, contact Lynne Walling, Program Director, Division of Mathematical Sciences, Room 1025, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230; telephone 703-292-8104; email: walling@nsf.gov. The program announcement is available at <http://www.nsf.gov/pubs/2001/nsf01154/nsf01154.txt>.

—From an NSF announcement

NSF International Research Fellow Awards

The International Research Fellow Awards Program of the National Science Foundation (NSF) provides support for postdoctoral and junior investigators to do research in basic science and engineering for three to twenty-four months in any country in the world. The goal of the program is to establish productive, long-term relationships between U.S. and foreign science and engineering communities. Applicants must be U.S. citizens or permanent residents who have earned their doctoral degrees within six years before the date of application or who expect to receive their degrees by the date of the award.

The deadline for applying is **November 1, 2004**. For further information contact the program officer, Susan Parris, 703-292-8711, email: sparris@nsf.gov; or visit the website <http://www.nsf.gov/sbe/int/fellows/start.htm>.

—From an NSF 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. The deadline for applications had not been set at the time of this writing but will occur in the **first week of November 2004**. More information and applications for the upcoming competition will be available during the first week of August 2004 at <http://www.nsf.gov/grfpd>.

—Allyn Jackson

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 2004 is **October 1, 2004**; the deadlines for 2005 are **February 1, 2005**; **May 1, 2005**; and **October 1, 2005**. For the Mentoring Travel Grants program the deadline is **February 1, 2005**. For further information and details on applying, see the AWM website, <http://www.awm-math.org/travelgrants.html>; or telephone 301-405-7892; or send email 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

Research Experiences for Undergraduates

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation (NSF). Student research may be supported in two forms: REU supplements and REU sites. REU supplements may be included in proposals for new or renewal NSF grants or cooperative agreements or as supplements to ongoing NSF-funded projects. REU sites are based on independent proposals to initiate and conduct undergraduate research participation projects for a number of students. REU site projects may be based in a single discipline or academic department or on interdisciplinary or multidepartment research opportunities with a strong intellectual focus. Proposals with an international dimension are welcomed. Undergraduate student participants supported with NSF funds in either supplements or sites must be citizens or permanent residents of the United States or its possessions.

The deadline for full proposals for REU sites is **September 15, 2004**. Deadline dates for REU supplements vary with the research program; contact the program director for more information. The full program announcement can be found at the website <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf02136>.

—From an NSF announcement

News from BIRS

The Banff International Research Station for Mathematical Innovation and Discovery (BIRS) is now accepting proposals for its 2006 program. Full information, guidelines, and online forms are available at the website <http://pims.math.ca/birs>.

BIRS will again be operating for 40 weeks in 2006 and each week will run either a full workshop (40 people for 5 days) or two half-workshops (20 people for 5 days). BIRS provides full meals, accommodations, and research

facilities at no cost to the organizers and to the invited participants, in a setting conducive to research and collaboration.

The deadline for 5-day workshop proposals and Summer Schools is **October 15, 2004**.

In addition, BIRS will operate its Research in Teams and Focused Research Groups programs, which allow smaller groups of researchers to get together for several weeks of uninterrupted work at the station. **October 15, 2004**, is also a preferred date to apply for these programs. However, proposals for projects involving Research in Teams or Focused Research Groups can still be submitted anytime—subject to availability—but should be submitted at least four months before their requested start date.

If possible, proposal submissions should be made using the online submission form. Please see <http://www.pims.math.ca/birs/>.

—BIRS announcement

News from PIMS

The Pacific Institute for the Mathematical Sciences (PIMS) welcomes applications for support for conferences, workshops, seminars and related activities in the mathematical sciences, to occur after April 1, 2005. The deadline for applications is **October 15, 2004**. The results will be announced by January 31, 2005. For more information please see: <http://www.pims.math.ca/opportunities/proposals.html>.

PIMS is pleased to announce the appointment of Alejandro Adem as the PIMS deputy director. He will take up his appointment on January 1, 2005. Until this date Manfred Trummer will continue to act as deputy director.

Adem is a distinguished topologist who has made important contributions to the study of group actions and to the cohomology of finite groups. He received his Ph.D. from Princeton University in 1986. He was a Szegő Assistant Professor at Stanford University (1986–89) and a member of the Institute for Advanced Study (1989–90) before moving to the University of Wisconsin at Madison.

He has held visiting positions at the Mathematical Sciences Research Institute (MSRI) in Berkeley (1990), the Eidgenössisches Technische Hochschule in Zurich (1993–94), the Max-Planck-Institut für Mathematik in Bonn (1997–98), Université de Paris VII (1998), the Centre de Recerca Matemàtica in Barcelona (1998), Université de Paris XIII (2000), and Hong Kong University of Science and Technology (2001). His awards include a Sloan Foundation Doctoral Dissertation Fellowship (1985), the National Science Foundation Young Investigator Award (1992), the Romnes Faculty Fellowship (1995), and the Vilas Associate Award (2003).

Adem brings to PIMS high scientific prestige and considerable administrative experience. He has been chair of the Department of Mathematics at the University of Wisconsin-Madison (1999–2002), and he is currently cochair of the Scientific Advisory Committee of MSRI.

—PIMS announcement

