Mathematics Opportunities

American Mathematical Society Centennial Fellowships

Invitation for Applications for Awards for 2007–2008
Deadline December 1, 2006

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.

Eligibility: 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 National Science Foundation 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, the doctoral degree must have been received between September 1, 1995, and September 1, 2004). 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.

Grant amount: The stipend for fellowships awarded for 2007–2008 is expected to be US$66,000, with an additional expense allowance of about US$3,500. 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. One fellowship will be awarded for the 2007–2008 academic year. A list of previous fellowship winners can be found at: `http://www.ams.org/prizes-awards`.

Deadline: The deadline for receipt of applications is **December 1, 2006**. Awards will be announced in February 2007 or earlier, if possible.

Application information: 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 reductions 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.

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 (MSP) of the National Security Agency (NSA) provides grants and sabbatical opportunities to support research by academic mathematical scientists. The MSP program offers four types of grants: 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. 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, 2006**. Grants begin in the fall of the following year. The postal address is: Michelle D. Wagner, Director, NSA Mathematical Sciences Program, National Security Agency, ATTN: R1, Suite 6557, Ft. George G. Meade, Maryland 20755-6557; telephone 301-688-0400.

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. The sabbaticals primarily involve cryptanalysis, though sabbatical work may also involve algebra, probability, statistics, number theory, and discrete mathematics. 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. The address for applications is National Security Agency, Director NSA Mathematical Sabbatical Program, ATTN: R51A National Security Agency, Fort George G. Meade, Maryland 20755-6000.

Further information may be obtained from the NSA's website: http://www.nsa.gov/msp/index.cfm.

—*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.

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 US$100,000 per year for up to twenty-four months.

The deadline for full proposals is **October 11, 2006**. 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: lwalling@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 objective of the International Research Fellowship Program (IRFP) of the National Science Foundation (NSF) is to introduce scientists and engineers in the early stages of their careers to research opportunities abroad. The program provides support for postdoctoral and junior investigators to do research in basic science and engineering for nine 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 three years before the date of application or who expect to receive their degrees by the date of the award.

The deadline for applying is **September 12, 2006**. For further information contact the program officer, Susan Parris, 703-292-8711, sparris@nsf.gov; or visit the website http://www.nsf.gov/pubs/2005/nsf05599/nsf05599.txt.

—*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 likely occur during the **first week of November 2006**. More information and applications for the upcoming competition will be available at http://www.nsf.gov/grfpd.

—*Elaine Kehoe*

AMS Scholarships for "Math in Moscow"

The Independent University of Moscow has created a program called "Math in Moscow", which offers foreign students (undergraduate or graduate students specializing in mathematics and/or computer science) the chance to spend a semester in Moscow studying mathematics. The AMS provides a small number of scholarships to students to attend the program.

Math in Moscow provides students with a fifteen-week program similar to the Research Experiences for Undergraduates programs that are held each summer across the

United States. Math in Moscow draws on the Russian tradition of teaching mathematics, which emphasizes creative approaches to problem solving. The focus is on developing in-depth understanding of carefully selected material rather than broad surveys of large quantities of material. Discovering mathematics under the guidance of an experienced teacher is the central principle of Math in Moscow. Most of the program's teachers are internationally recognized research mathematicians, and all of them have considerable teaching experience in English, typically in the United States or Canada. All instruction is in English.

With funding from the National Science Foundation, the AMS awards five US$5,000 scholarships each semester to U.S. students to attend the Math in Moscow program. To be eligible for the scholarships, students must submit applications to *both* the Math in Moscow program and the AMS. An applicant should be an undergraduate mathematics or computer science major enrolled at a U.S. institution. **September 30, 2006**, is the deadline for the spring 2007 semester; **April 15, 2007**, is the deadline for scholarship applications for the fall 2007 semester.

Information and application forms for Math in Moscow are available on the Web at `http://www.mccme.ru/mathinmoscow`, or by writing to: Math in Moscow, P.O. Box 524, Wynnewood, PA 19096; fax +7095-291-65-01; email: `mim@mccme.ru`. Information and application forms for the AMS scholarships are available on the Web at `http://www.ams.org/outreach/mimoscow.html`, or by writing to: Math in Moscow Program, Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence RI 02904-2294; email: `student-serv@ams.org`.

—AMS 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 2006 is **October 1, 2006**; the deadlines for 2007 are **February 1, 2007; May 1, 2007**; and **October 1, 2007**. For the Mentoring Travel Grants program the deadline is **February 1, 2007**. For further information and details on applying, see the AWM website, `http://www.awm-math.org/travelgrants.html`; or telephone 703-934-0163 or email: `awm@awm-math.edu`. The postal address is: Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

—From an AWM announcement

News from Oberwolfach

The Mathematisches Forschungsinstitute Oberwolfach (MFO), in Oberwolfach-Walke, Germany, is pleased to announce that the U.S. National Science Foundation (NSF) has again awarded a grant to the MFO for support of the project "U.S. Junior Oberwolfach Fellows". This is a five-year prolongation of previous NSF awards to the MFO.

This grant enables the MFO to support the participation of outstanding young scientists from U.S. universities/institutes in every Oberwolfach workshop (e.g., postdocs, tenure-track holders) or Oberwolfach seminar (e.g., graduate students). This award is effective April 1, 2006, and expires March 31, 2011. Travel expenses (U.S. airlines only) for these U.S. Junior Oberwolfach Fellows can be covered up to 400 Euros (about US$500). The internal costs for accommodation and meals at Oberwolfach will be covered by the NSF as well.

The participants must hold a job or position at a U.S. university or institute (every nationality can apply) and must come from the U.S. to Oberwolfach. The Ph.D./Dr. degree must have been received not more than ten years ago.

Interested persons meeting these conditions may apply by sending an email with the following information: full name and address of university or institution; age, gender, and nationality; year of Master/Diploma degree and year of Ph.D./Dr. degree; current position; and short description of their research activity. This information should be sent to the director of the MFO.

As the institute wishes to increase the number of female participants, applications from female researchers are very welcome.

The final decision about participation will be made by the director after advice by the organizers. The MFO emphasizes that the number of eligible participants is limited.

Further information may be found on the MFO website, `http://www.mfo.de/`.

—MFO announcement

News from AIM

The American Institute of Mathematics (AIM) Research Conference Center seeks proposals for week-long focused workshops in all areas of the mathematical sciences.

Detailed information about AIM programs, upcoming workshops, and application forms for proposing workshops can be found at `http://www.aimath.org`.

—AIM announcement