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# Mathematics Opportunities

## American Mathematical Society Centennial Fellowships

**Invitation for Applications for Awards for 2009–2010**  
**Deadline December 1, 2008**

*Description:* The AMS Centennial Research Fellowship Program makes awards annually to outstanding mathematicians to help further their careers in research. 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 2009–2010 academic year. A list of previous fellowship winners can be found at: <http://www.ams.org/prizes-awards>.

*Eligibility:* 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 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, received between September 1, 1997, and September 1, 2006). 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. 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.

*Grant amount:* The stipend for fellowships awarded for 2009–2010 is expected to be US\$77,000, with an additional expense allowance of about US\$7,700. Acceptance of the fellowship cannot be postponed.

*Deadline:* The deadline for receipt of applications is **December 1, 2008**. Awards will be announced in February 2009 or earlier, if possible.

*Application information:* 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 email to [prof-serv@ams.org](mailto:prof-serv@ams.org); or call 401-455-4060.

—AMS announcement

## Graduate Student Travel Grants to 2009 JMM

**Deadline October 27, 2008**

The AMS, with funding from a private gift, is accepting applications for partial travel support for graduate students attending the Joint Mathematics Meetings in Washington, DC, January 5–8, 2009. The awards, in the amount of US\$500, must be matched by travel funds from the student's institution. It is expected that awards will be made sometime in December, 2008.

This program is open to full time graduate students (in good standing) in a mathematical sciences department at a North American institution. A form to be signed by a representative of the department, agreeing to matching funding, will be part of the application package. Applications will be evaluated by a panel of mathematical scientists.

The application form is available on the AMS web site at <http://www.ams.org/employment/student-JMM.html>. The deadline for submitting applications is **October 27, 2008**. All information about the Joint Mathematics Meetings can be found in the Meetings section of

the AMS web site, <http://www.ams.org/meetings>. This travel grant program is being administered by the AMS Membership & Programs Department, AMS, 201 Charles Street, Providence, RI 02904. You can reach the department at [student-JMM@ams.org](mailto:student-JMM@ams.org), or 800-321-4267, ext. 4124, or 401-455-4124.

—*Diane Boumenot, AMS Membership and Programs*

## AMS Congressional Fellowship

The AMS, in conjunction with the American Association for the Advancement of Science (AAAS), will sponsor a Congressional Fellow from September 2009 through August 2010. The fellow will spend the year working on the staff of a member of Congress or a congressional committee as a special legislative assistant in legislative and policy areas requiring scientific and technical input. The fellowship is designed to provide a unique public policy learning experience, to demonstrate the value of science-government interaction, and to bring a technical background and external perspective to the decision-making process in the Congress. Prospective fellows must demonstrate expertise in some area of the mathematical sciences; have a good scientific and technical background; be cognizant of and demonstrate sensitivity toward political and social issues; and, most important, have a strong interest and some experience in applying personal knowledge toward the solution of societal problems.

Deadline for applications is **January 31, 2009**. Applicants should have a Ph.D. or an equivalent doctoral-level degree in the mathematical sciences by the application deadline. For further information, please consult the webpage at <http://www.ams.org/government/congressfellowann.html> or contact the AMS Washington office at 202-588-1100, email: [amsdc@ams.org](mailto:amsdc@ams.org).

—*AMS Washington office*

## NSF Graduate Research 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 full proposals in mathematical sciences is **November 5, 2008**. For more information see [http://www.nsf.gov/pubs/2008/nsf08593/nsf08593.htm?govDe1=USNSF\\_25](http://www.nsf.gov/pubs/2008/nsf08593/nsf08593.htm?govDe1=USNSF_25).

—*From an NSF announcement*

## Research Opportunities for U.S. Graduate Students in Asia and Australia

The National Science Foundation (NSF) and the National Institutes of Health (NIH) are cosponsoring a summer research program in Australia, China, Japan, Korea, Taiwan, New Zealand, and Singapore for U.S. graduate students during the summer of 2009. The East Asia and Pacific Summer Institutes (EAPSI) provide U.S. graduate students in science and engineering with firsthand research experience in Australia, China, Japan, Korea, Taiwan, New Zealand, or Singapore; an introduction to the science and science policy infrastructure of the respective location; and orientation to the culture and language. The primary goals of EAPSI are to introduce students to East Asian and Pacific science and engineering in the context of a research laboratory and to initiate personal relationships that will better enable them to collaborate with foreign counterparts in the future. The institutes last approximately eight weeks, from June to August, and are administered in the United States by the NSF. The NIH cosponsors the summer institute in Japan.

Applicants must be U.S. citizens or permanent residents. They must be enrolled at U.S. institutions in science or engineering Ph.D. programs, in M.D. programs with an interest in biomedical research, or in master's degree programs with at least one full academic year completed by the end of the calendar year of application. They must be pursuing studies in fields of science or engineering that are supported by the NSF or the NIH (for Japan) and that also are represented among the potential host institutions. International travel will be provided, and each awardee will receive an allowance of US\$4,000.

The deadline for application materials to be post-marked is expected to be **December 9, 2008**; please check the website below for exact date. Proposers are required to prepare and submit all proposals for this announcement/solicitation through the FastLane system. Detailed instructions for proposal preparation and submission via FastLane are available at: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5284](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284).

—*From an NSF announcement*

## EDGE Summer Program

The Enhancing Diversity in Graduate Education (EDGE) Program is a postbaccalaureate summer enrichment program designed to strengthen the ability of women and minority students to successfully complete graduate programs in the mathematical sciences.

The summer program consists of two core courses in analysis and algebra/linear algebra. There will also be mini-courses in vital areas of mathematical research in pure and applied mathematics, short-term visitors from academia and industry, guest lectures, graduate student mentors, and problem sessions. In addition, a follow-up mentoring

program and support network will be established with the participants' respective graduate programs.

Applicants to the program should be women who are (1) graduating seniors who have applied to graduate programs in the mathematical sciences, (2) recent recipients of undergraduate degrees who are now entering graduate programs, or (3) first-year graduate students. All applicants should have completed standard junior- or senior-level undergraduate courses in analysis and abstract algebra and have a desire to earn the doctorate degree. Women from minority groups who fit one of the above three categories are especially encouraged to apply. A stipend of US\$2,000 plus travel, room, and board will be provided to participants. Final acceptance to the program is contingent on acceptance to a graduate program in the mathematical sciences.

The next EDGE summer program will be held in the summer of 2009 at Spelman College. The application deadline is **March 2, 2009**. See the website [http://www.edgeforwomen.org/?page\\_id=5](http://www.edgeforwomen.org/?page_id=5) for further information as it becomes available.

—From an EDGE Program announcement

## AAUW Educational Foundation Fellowships and Grants

The American Association of University Women (AAUW) awards Selected Professions Fellowships to women who intend to pursue a full-time course of study at accredited institutions during the fellowship year in a designated degree program in which women's participation has traditionally been low. All women who are candidates for the master of science (M.S.) degree in mathematics or statistics are eligible to apply.

Applications are now available for Master's and First Professional Awards, which carry cash awards of between US\$5,000 and US\$12,000. The deadline for applications to be postmarked is **January 10, 2009**. The fellowship year runs from July 1, 2009, to June 30, 2010. For more information, see the AAUW's website at [http://www.aauw.org/fga/fellowships\\_grants/selected.cfm](http://www.aauw.org/fga/fellowships_grants/selected.cfm) or contact the AAUW Educational Foundation, Selected Professions Fellowships, Dept. 60, 301 ACT Drive, Iowa City, IA 52243-4030; telephone: 319-337-1716, ext. 60; email: [aauw@act.org](mailto:aauw@act.org).

—From an AAUW announcement

## NRC-Ford Foundation Diversity Fellowships

The National Research Council (NRC) administers the Ford Foundation Diversity Fellowships program. The program seeks to promote the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diver-

sity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students. Predoctoral fellowships support study toward a Ph.D. or Sc.D.; dissertation fellowships offer support in the final year of writing the Ph.D. or Sc.D. thesis; postdoctoral fellowships offer one-year awards for Ph.D. recipients. Applicants must be U.S. citizens or nationals in research-based fields of study and members of one of the following groups: Alaska Native (Eskimo or Aleut), Black/African American, Mexican American/Chicana/Chicano, Native American Indian, Native Pacific Islander (Polynesian/Micronesian), or Puerto Rican.

Approximately sixty predoctoral fellowships will be awarded for 2009. The awards provide three years of support and are made to individuals who, in the judgment of the review panels, have demonstrated superior academic achievement, are committed to a career in teaching and research at the college or university level, show promise of future achievement as scholars and teachers, and are well prepared to use diversity as a resource for enriching the education of all students. The annual stipend is US\$20,000, with an institutional allowance of US\$2,000. The deadline for applying online is **November 14, 2008**.

Approximately thirty-five dissertation fellowships will be awarded for 2009 and will provide one year of support for study leading to a Ph.D. or D.Sc. degree. The stipend for one year is US\$21,000. The deadline for applying online is **November 28, 2008**.

The postdoctoral fellowship program offers one year of postdoctoral support for individuals who have received their Ph.D.'s no earlier than November 30, 2001, and no later than November 29, 2008. The stipend is US\$40,000, with an employing institution allowance of US\$1,500. Approximately twenty postdoctoral fellowships will be awarded for 2009. The deadline for applying online is **November 28, 2008**.

More detailed information and applications are available at the website <http://www7.nationalacademies.org/FORDfellowships/>. The postal address is: Fellowships Office, Keck 576, National Research Council, 500 Fifth Street, NW, Washington, DC 20001. The telephone number is 202-334-2872. The email address is [infofell@nas.edu](mailto:infofell@nas.edu).

—From an NRC announcement

## DMS Opens New Institute Competition

The Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) now supports programs at seven U.S.-based institutes: the American Institute of Mathematics (AIM), the Institute for Advanced Study (IAS), the Institute for Mathematics and its Applications (IMA), the Institute for Pure and Applied Mathematics (IPAM), the Mathematical Biosciences Institute (MBI), the Mathematical Sciences Research Institute (MSRI), and the Statistical and Applied Mathematical Sciences Institute (SAMSI). DMS is soliciting proposals for institutes with clearly defined

imaginative missions that match the objectives of the DMS Mathematical Sciences Research Institutes program. Projects supported by this program must involve the mathematical sciences in a significant way and have the scope to justify the funding, duration, and infrastructure of an institute. The goals of the program include advancing research in the mathematical sciences, increasing the impact of the mathematical sciences in other disciplines, enabling the mathematical sciences to respond to national needs, and expanding the talent base engaged in mathematical research in the United States.

Proposals may be submitted by nonprofit, nonacademic organizations such as independent museums, observatories, research labs, professional societies, and similar organizations in the United States associated with educational or research activities and by universities and two- and four-year colleges (including community colleges) located and accredited in the United States and acting on behalf of their faculty members. The deadline for proposals is **February 27, 2009**. The complete program solicitation is available at [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5302](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5302).

—From an NSF announcement

## News from the Institut Mittag-Leffler

The Institut Mittag-Leffler, Djursholm, Sweden, announces its programs for the academic year 2009–2010. The fall term 2009 will be devoted to *Mathematical Logic: Set Theory and Model Theory*. The steering committee consists of Jouko Väänänen (chair), University of Helsinki and University of Amsterdam; Dag Normann, University of Oslo; Erik Palmgren, University of Uppsala; and Hugh Woodin, University of California Berkeley.

The spring term 2009 will be devoted to *Dynamics and PDEs*. The scientific steering committee consists of Michael Benedicks (chair), KTH, Stockholm; Håkan Eliasson, University of Paris VII; Jörg Schmeling, University of Lund; and Jean-Christophe Yoccoz, Collège de France.

The application deadline for postdoctoral fellowships is **January 20, 2009**. Applications may be sent to Marie-Louise Koskull, email: [koskull@mittag-leffler.se](mailto:koskull@mittag-leffler.se). The postal address is: Institut Mittag-Leffler, Auravägen 17, SE-182 60 Djursholm, Sweden.

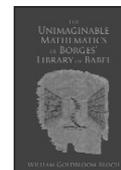
For further information and application forms, see our homepage, <http://www.mittag-leffler.se/programs/0910/grants.php>.

—Institut Mittag-Leffler announcement

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