
Mathematics Opportunities

American Mathematical Society Centennial Fellowships

Invitation for Applications for Awards for 2010-2011

Deadline: December 1, 2009

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 2010-11 academic year. A list of previous fellowship winners can be found at <http://www.ams.org/prizes/centennial-fellowship.html>.

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, 1998, and September 1, 2007). 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 2010-11 is expected to be US\$77,000, with an additional expense allowance of about \$7,700. Acceptance of the fellowship cannot be postponed.

Deadline: The deadline for receipt of applications is **December 1, 2009**. Awards will be announced in February 2010 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 electronic mail to prof-serv@ams.org; or call 401-455-4105.

—AMS announcement

AMS Congressional Fellowship

The AMS, in conjunction with the American Association for the Advancement of Science (AAAS), will sponsor a Congressional Fellow from September 2010 through August 2011. 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 Congress. The deadline for applications is **February 15, 2010**. 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.

—AMS Washington Office

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 requested for ongoing NSF-funded research projects or may be included in proposals for new or renewal NSF grants or cooperative agreements.

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 on 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. A partnership with the Department of Defense supports REU sites in research areas relevant to defense. 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.

Students may not apply to NSF to participate in REU activities. Students apply directly to REU sites and should consult the directory of active REU sites on the Web at http://www.nsf.gov/crssprgm/reu/reu_search.cfm. The deadline for full proposals for REU sites is **October 22, 2009**. 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/pubs/2009/nsf09598/nsf09598.htm?govDel=USNSF_25.

—From an NSF announcement

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 4, 2009**. For more information see <http://www.nsf.gov/pubs/2009/nsf09603/nsf09603.htm>.

—From an NSF announcement

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

The National Science Foundation (NSF) is sponsoring a summer research program in Australia, China, Japan, Korea, Taiwan, New Zealand, and Singapore for U.S. graduate students during the summer of 2010. The East Asia and Pacific Summer Institutes (EAPSI) provide U.S. graduate students in science and engineering with first-hand 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 (ten weeks in Japan) from June to August and are administered in the United States by the NSF.

Applicants must be U.S. citizens or permanent residents. They must be enrolled at U.S. institutions in a research-oriented master's or Ph.D. program (including joint degree programs) in fields of science or engineering research and education that are supported by the NSF and that also are represented among the potential host institutions. International travel will be provided, and each awardee will receive an allowance of US\$5,000.

The deadline for application materials to be post-marked is **December 8, 2009**. Proposers are required to prepare and submit all proposals for this announcement/solicitation through the FastLane system. Further information and detailed instructions are available at <http://www.nsf.gov/pubs/2008/nsf08603/nsf08603.htm>.

—From an NSF announcement

Jefferson Science Fellows Program

The Jefferson Science Fellows (JSF) program at the U.S. Department of State is intended to involve the American academic science, technology, and engineering communities in the formulation and implementation of U.S. foreign policy. Each fellow will spend one year at the U.S. Department of State or the U.S. Agency for International Development (USAID) for an on-site assignment in Washington, D.C., that may also involve extended stays at U.S. foreign embassies and/or missions. Each Fellow will receive a stipend of up to US\$50,000. Following the fellowship year, the Jefferson Science Fellow will return to his or her academic career but will remain available to the U.S. Department of State for short-term projects over the following five years.

The JSF program is administered by the National Academies and supported through a partnership among the MacArthur Foundation, the Carnegie Corporation, the U.S. science, technology, and academic communities, professional scientific societies, and the U.S. Department of State. The deadline for applications is **January 15, 2010**. For further information, email: jsf@nas.edu, telephone 202-334-2643, or see the website <http://www7.nationalacademies.org/jefferson/>.

—From a National Academies 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\$18,000. The deadline for applications to be postmarked is **January 10, 2010**. The fellowship year runs from July 1, 2010, to June 30, 2011. For more information, see the AAUW's website at 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: 800/326-2289; email: connect@aauw.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 diversity, 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. Membership in one of the following groups will be considered a positive factor: Alaska Native (Eskimo, Aleut, or other indigenous peoples), Black/African American, Mexican American/Chicana/

Chicano, Native American Indian, Native Pacific Islander (Hawaiian/Polynesian/Micronesian), or Puerto Rican.

Approximately forty predoctoral fellowships will be awarded for 2010. 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\$21,000, with an institutional allowance of US\$2,000. The deadline for applying online is **November 2, 2009**.

Approximately twenty dissertation fellowships will be awarded for 2010 and will provide one year of support for study leading to a Ph.D. or Sc.D. degree. The stipend for one year is US\$21,000. The deadline for applying online is **November 9, 2009**. The postdoctoral fellowship program offers one year of postdoctoral support for individuals who have received their Ph.D.s no earlier than November 30, 2002, and no later than November 9, 2009. The stipend is US\$40,000, with an employing institution allowance of US\$1,500. Approximately eighteen postdoctoral fellowships will be awarded for 2009. The deadline for applying online is **November 9, 2009**.

More detailed information and applications are available at the website <http://sites.nationalacademies.org/PGA/FordFellowships/index.htm>. 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.

—From an NRC announcement

News from the Institut Mittag-Leffler

The Institut Mittag-Leffler, Djursholm, Sweden, announces its programs for the academic year 2010–11. The fall term 2010 will be devoted to *Quantum Information Theory*. The scientific steering committee consists of Mary Beth Ruskai (chair), Tufts University; Alexander Holevo, Steklov Mathematical Institute, Moscow; Erling Størmer, University of Oslo; Andreas Winter, University of Bristol, United Kingdom, and National University of Singapore; and Michael Wolf, University of Copenhagen.

The spring term 2011 will be devoted to *Algebraic Geometry with a View Towards Applications*. The scientific steering committee consists of Sandra di Rocco (chair), KTH, the Royal Institute of Technology, Stockholm; Alicia Dickenstein, University of Buenos Aires; Ragni Piene and Kristian Ranestad, University of Oslo; and Bernd Sturmfels, University of California, Berkeley. The application deadline for postdoctoral fellowships is **January 20, 2010**. Applications may be sent to Marie-Louise Koskull, email: koskull@mittag-leffler.se. The postal address is: Institut Mittag-Leffler, Auravägen 17, SE-182 60 Djursholm, Sweden.



Worldwide Search for Talent

City University of Hong Kong aspires to become a leading global university, excelling in research and professional education. The University is committed to nurturing and developing students' talent and creating applicable knowledge in order to support social and economic advancement. Within the next five years, the University will employ another **200 scholars** in various disciplines including **science, engineering, business, social sciences, humanities, law, creative media, energy, environment, and biomedical & veterinary sciences**. Its Department of Mathematics has a strong mission to conduct first-class research in applied mathematics and provide high quality education in mathematics.

Applications are invited for:

Associate Professor/Assistant Professor Department of Mathematics [Ref. A/584/49]

Duties : Conduct research in areas of Applied Mathematics, teach undergraduate and postgraduate courses, supervise research students, and perform any other duties as assigned.

Requirements : A PhD in Mathematics/Applied Mathematics/Statistics with an excellent research record.

Salary and Conditions of Service

Remuneration package will be very attractive, driven by market competitiveness and individual performance. Excellent fringe benefits include gratuity, leave, medical and dental schemes, and relocation assistance (where applicable). Initial appointment will be made on a fixed-term contract.

Information and Application

Further information on the posts and the University is available at <http://www.cityu.edu.hk>, or from the Human Resources Office, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong [Fax : (852) 2788 1154 or (852) 3442 0311/email: hrojob@cityu.edu.hk]. Please send the application with a current curriculum vitae to Human Resources Office. **Applications will be considered until positions are filled.** Please quote the reference of the post in the application and on the envelope. The University reserves the right to consider late applications, and not to fill the positions. Personal data provided by applicants will be used for recruitment and other employment-related purposes.

Mathematics Opportunities

For further information and application forms, see the website <http://www.mittag-leffler.se/programs/1011/grants.php>.

—Institut Mittag-Leffler announcement

News from the CRM

The Centre de Recerca Matemàtica (CRM) in Bellaterra, Spain, is commemorating its twenty-fifth anniversary with some special scientific programs.

October 19–24, 2009: Advanced Course on Shimura Varieties and L -Functions. Coordinators: F. Bars, L. Dieulefait, V. Rotger. Lecturers: S. W. Zhang, Columbia University; Bas Edixhoven, Leiden University; Andrei Yafaev, University College London.

December 9–12, 2009: Algebraic Cycles, Modular Forms, and Rational Points on Elliptic Curves. Coordinators: F. Bars, L. Dieulefait, V. Rotger. Lecturers: M. Bertolini, H. Darmon, and K. Prasanna.

January 25–29, 2010: Third International Conference on the Anthropological Theory of the Didactic. Lecturers: Michèle Artigue, Université de Paris 7; Yves Matheron, IUFM, Midi-Pyrénées, Toulouse; Robert Noirfalise, Université Clermont-Ferrand II; María Trigueros, Instituto Tecnológico Autónomo de México (ITAM); Carl Winslow, University of Copenhagen.

February 22–March 5, 2010: Arithmetic Geometry for Function Fields of Positive Characteristic. Coordinators: F. Bars, L. Dieulefait, V. Rotger. Lecturers: Gebhard Böckle, Universitaet Duisburg-Essen, Germany; Douglas Ulmer, University of Arizona.

March 17–26, 2010: Second International School on Geometry and Physics: Geometric Langlands and Gauge Theory. Coordinators: L. Alvarez-Cónsul, J. I. Burgos, O. García-Prada, I. Mundet. Lecturers: David Ben-Zvi, University of Texas, Austin; Olivier Biquard, Institut de Mathématique Jussieu, Paris; Tamás Hausel, University of Oxford; Anton Kapustin, California Institute of Technology; Tony Pantev, University of Pennsylvania.

For more information on the program and registration, see the website <http://www.crm.cat/>.

—From a CRM announcement