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# 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 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, 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](mailto:prof-serv@ams.org); or call 401-455-4107.

—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 2007 through August 2008. 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. Deadline for applications is **January 31, 2007**. 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).

—Anita Benjamin, 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 3, 2006**. For more information see <http://www.nsf.gov/grfpd>.

—*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, and Taiwan for U.S. graduate students during the summer of 2007. 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, or Taiwan; 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 National Institutes of Health (NIH) cosponsor 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\$3,000.

The deadline for application materials to be postmarked is **December 12, 2006**. 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&org=NSF](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284&org=NSF).

—*From an NSF 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. Candidates are eligible to apply for support for the final year of study only and are expected to receive their degrees at the end of the fellowship year. Special consideration is given to applicants who show professional promise in innovative or neglected areas of research or practice in areas of public interest.

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, 2007**. The fellowship year runs from July 1, 2007, to June 30, 2008. 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, P.O. Box 4030, Iowa City, IA 52243-4030.

—*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 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 2007. 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\$3,000. The deadline for applying online is **November 16, 2006**. Approximately thirty-five dissertation fellowships will be awarded for 2007 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 30, 2006**.

The postdoctoral fellowship program offers one year of postdoctoral support for individuals who have received their Ph.D.'s no earlier than December 1, 1999, and no later than November 30, 2006. The stipend is US\$40,000, with an employing institution allowance of US\$1,500. Approximately twenty postdoctoral fellowships will be awarded for 2007. The deadline for applying online is **November 30, 2006**.

More detailed information and applications are available at the website <http://www.nationalacademies.org/grantprograms.html/>. The postal address is: Fellowships Office, GR 346A, National Research Council of the National Academies, 550 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

## News from the Institut Mittag-Leffler

The academic year 2007–2008 at the Institut Mittag-Leffler, Djursholm, Sweden, will be devoted to the following topics.

*Fall Term 2007:* Stochastic Partial Differential Equations and Applications. The organizing committee consists of Marta Sanz-Solé (Chair), University of Barcelona; Bernt Øksendal, University of Oslo; and Michael Röckner, University of Bielefeld.

*Spring Term 2008:* Complex Analysis of Several Variables. The organizing committee consists of Bo Berndtsson (Chair), CTH, Gothenburg; John Erik Fornæss, University of Michigan; and Burglind Jöricke, University of Uppsala.

The application deadline for postdoctoral fellowships is **January 31, 2007**. Applications should be sent to: Marie-Louise Koskull ([koskull@mittag-leffler.se](mailto:koskull@mittag-leffler.se)), Institut Mittag-Leffler, Auravägen 17, SE-182 60 Djursholm, Sweden. For information and application forms see the homepage: <http://www.mittag-leffler.se/grants>.

—Institut Mittag-Leffler announcement

## News from the Mathematical Biosciences Institute

The Mathematical Biosciences Institute (MBI) at The Ohio State University announces the following events from its 2006–2007 scientific program.

Winter Quarter 2007: *The Microcirculatory and Renal Systems*. January 19, 2007: Tutorial on *Blood Flow in the Microcirculation*; January 22–26, 2007: Workshop 4—*Blood Flow in the Microcirculation: Function, Regulation, and Adaptation* (Organizers: Tim Secomb and Daniel A. Beard); February 19–23, 2007: Workshop 5—*The Kidney: Cellular,*

*Tubular, and Vascular Physiology* (Organizers: Harold Layton, Leon Moore, S. Randall Thomas, and Alan Weinstein).

Spring Quarter 2007: *The Visual, Endocrine, and Auditory System*. April 23–27, 2007: Workshop 6—*Information Processing in the Visual System* (Organizers: Paul C. Bressloff and Alessandra Angelucci); May 18, 2007: Tutorial on *Endocrine Physiology*; May 21–25, 2007: Workshop 7—*Endocrine Physiology: Type 2 Diabetes, Metabolism, and Obesity* (Organizers: Richard Bertram and Artie Sherman); June 22, 2007: Tutorial on *The Auditory System*; June 25–29, 2007: Workshop 8—*The Auditory System* (Organizers: James Sneyd and David Mountain).

*2007 Workshop for Young Researchers in Mathematical Biology (WYRMB)*, March 12–15, 2007 (Organizers: MBI postdoctoral fellows). Workshop activities include plenary talks and poster sessions, as well as group discussions on issues relevant to mathematical biologists. We cordially invite young mathematical biologists to participate. Accepted Plenary Speakers: Lisa Fauci, Trachette Jackson, Kenneth Lange, Robert Miura, Alan Perelson, Mike Reed, and John Tyson.

*2007 Summer Program in Mathematical Biology for Undergraduates*, July 9–20, 2007. The program consists of two parts: (a) two weeks of introductory lectures plus short projects and a computer lab, and (b) a summer-long research experience (six weeks immediately following the introductory two weeks) devoted to projects in the interface of mathematics, statistics, and biological sciences.

*2007 Summer Program in Systems Physiology*, July 23–August 10, 2007. Each summer the MBI hosts a three-week education program. The first week is spent in a tutorial. The following two weeks are spent working on guided team projects. The program is meant primarily for graduate students; college instructors and qualified undergraduates will also be considered.

*Current Topics Workshops*. April 12–13, 2007: *MicroRNA in Development and Cancer* (Organizers: Carlo Croce, Avner Friedman, George Calin, and Shili Lin); May 8–10, 2007: *Chemogenomics* (Organizers: Paul Blower, Joe Verducci, John Weinstein, and Stan Young).

*Special events and workshops*. March 23–25, 2007: Workshop—*Opportunities in Mathematical Biology for Underrepresented Groups* (Organizers: Carlos Castillo Chavez, Trachette Jackson, Simon Levin, and Abdul-Aziz Yakubu); June 1–2, 2007: Education Workshop—*Mathematics in the Undergraduate Curriculum in Biology* (Organizers: Linda Allen, Steve Deckelman, Jennifer Galovich, and Libby Marschall).

The MBI encourages solicitation of suggestions for scientific programs. Please contact Avner Friedman directly or use the “Suggestions” link at <http://mbi.osu.edu>.

For more information visit the MBI website at <http://mbi.osu.edu>. Applications for postdoctoral fellowships, workshop participation, and long-term visits are available on the Web.

—Mathematical Biosciences Institute announcement