
Mathematics Opportunities

American Mathematical Society Centennial Fellowship

*Invitation for Applications for Awards for 2016–2017
Deadline December 1, 2015*

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. At least one fellowship will be awarded for the 2016–2017 academic year. A list of previous fellowship winners can be found at www.ams.org/profession/prizes-awards/ams-awards/centennial-fellow.

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 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, 2004, and September 1, 2013). 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 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.

Deadline: The deadline for receipt of applications is **December 1, 2015**. The award recipient will be announced in February 2016 or earlier if possible.

Application information: Find Centennial information and the application form via the Internet at www.ams.org/ams-fellowships/. For paper copies of the form, write to the Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294; prof-serv@ams.org; 401-455-4096.

—AMS announcement

Call for Nominations for the Award for Impact on the Teaching and Learning of Mathematics

This award is given annually to a mathematician or group of mathematicians who have made significant contributions of lasting value to mathematics education. Priorities of the award include recognition of (a) accomplished mathematicians who have worked directly with precollege teachers to enhance teachers' impact on mathematics achievement for all students or (b) sustainable and replicable contributions by mathematicians to improving the mathematics education of students in the first two years of college. The US\$1,000 annual award is provided through an endowment fund established by a contribution from Kenneth I. and Mary Lou Gross in honor of their daughters, Laura and Karen. The AMS Committee on Education selects the recipient. The deadline for nominations for the 2016 award is **September 15, 2015**. For more information, see the nomination webpage at www.ams.org/profession/prizes-awards/ams-awards/impact.

—AMS Washington Office

AWM Travel Grants for Women

The National Science Foundation (NSF) and the Association for Women in Mathematics (AWM) sponsor travel grant programs for women mathematicians. AWM Travel Grants for Women Researchers 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 Mathematics Travel Grant provides full or partial support for travel and subsistence for a meeting or conference in the grantee's field of specialization, awarding funds of up to US\$2,300 for domestic travel and of US\$3,500 for foreign travel.

The Mathematics Education Research Travel Grants provide full or partial support for travel and subsistence in math/math education research for mathematicians attending a math education research conference or math education researchers attending a math conference. The grants provide up to US\$2,300 for domestic travel and of US\$3,500 for foreign travel.

AWM Mathematics 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. Up to seven grants will be awarded in amounts up to US\$5,000 each.

Mathematics Education Research Mentoring Travel Grants encourage collaboration between mathematicians and researchers in education and related fields in order to improve the education of teachers and students. Women mathematicians who wish to collaborate with an educational researcher or to learn about educational research may use the mentoring grants to travel to collaborate with or be mentored by a mathematics education researcher. Up to seven grants will be awarded in amounts up to US\$5,000 each.

The final deadline for the Travel Grants program for 2015 is **October 1, 2015**.

The deadlines for 2016 are **February 1, 2016; May 1, 2016; and October 1, 2016**.

For the Mathematics Education Research Mentoring Travel Grant program the deadlines are **October 1, 2015; February 1, 2016; May 1, 2016; and October 1, 2016**.

For the Mathematics Mentoring Travel Grants program the deadline is **February 1, 2016**.

For the Mathematics Education Research Mentoring Travel Grants program the deadline is **February 1, 2016**.

For further information and details on applying, see the website <https://sites.google.com/site/awmmath/programs/travel-grants>; tel: 703-934-0163; email: awm@awm-math.org; or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

—From an AWM announcement

Call for Nominations for Clay Research Fellowships

The Clay Mathematics Institute (CMI) solicits nominations for its competition for the 2016 Clay Research Fellowships. Fellows are appointed for a period of one to five years. They may conduct their research at whatever institution or combination of institutions best suits their research. In addition to a generous salary, the fellows receive support for travel, collaboration, and other research expenses. The selection criteria are the quality of the candidate's research and promise to become a mathematical leader. All those selected are recent PhDs, and most are selected as they complete their thesis work. Selection decisions are made by CMI's Scientific Advisory Board.

To nominate a candidate, please send the following items by **November 16, 2015**: (1) letter of nomination, (2) names and contact information of two other references, (3) curriculum vitae for the nominee, and (4) publication list for the nominee. For more information and submission instructions, see www.claymath.org/programs/fellowship-nominations.

—From a Clay Mathematics Institute announcement

NRC-Ford Foundation Fellowships

Through its Fellowship Programs, the Ford Foundation seeks to increase 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. The fellowships are administered by the Fellowships Office of the National Research Council. All citizens or nationals of the United States are eligible, regardless of race, national origin, religion, gender, age, disability, or sexual orientation. The fellowships are awarded to individuals who demonstrate superior academic achievement (such as grade point average, class rank, honors, or other designations) and who are committed to a career in teaching and research at the college or university level.

Approximately sixty Predoctoral Fellowships will be awarded. These fellowships provide three years of support for individuals engaged in graduate study leading to a PhD or ScD degree. The online application deadline is **November 20, 2015**.

Approximately thirty-six Dissertation Fellowships will be awarded. These fellowships provide one year of support for individuals working to complete a dissertation leading to a PhD or ScD degree. The online application deadline is **November 13, 2015**.

Approximately twenty Postdoctoral Fellowships will be awarded. These fellowships provide one year of support for individuals engaged in postdoctoral study after the attainment of the PhD or ScD degree. The online application deadline is **November 13, 2015**.

For further information, visit the website sites.nationalacademies.org/pga/fordfellowships/ or contact: Fellowships Office, Keck 576, National Research Council, 500 Fifth Street, NW, Washington, DC 20001; tel: 202-334-2872; fax: 202-334-3419; email: infofell@nas.edu.

—From the Ford Foundation Fellowships website

News from CIRM

The Centro Internazionale per la Ricerca Matematica (CIRM), located in Trento, Italy, announces the following activities in mathematics research in 2016.

Conferences. A series of conferences and mathematical meetings will be supported in 2016. Proposals must be submitted before **September 30, 2015**, by postal mail to Fondazione Bruno Kessler, Centro Internazionale per la Ricerca Matematica, Via Sommarive n. 14-Povo, 38123 Trento, Italy, or by email to micheletti@fbk.eu. For more information see the website cirm.fbk.eu/call-applications-2016-conferences.

Visiting Professorships, Visiting Scholars, Research in Pairs. CIRM Visiting Scholars will perform mathematical research in cooperation with scientists and researchers at

Trento University or, more generally, in the Trento area, holding some research seminars; CIRM Visiting Professors will hold short PhD courses, summer courses, or series of seminars. The Research in Pairs program supports two or three partners from universities located in different towns who intend to work together at CIRM on a definite research project for a period of time ranging from one to six weeks. Applications for these programs must be sent by postal mail to Fondazione Bruno Kessler, Centro Internazionale per la Ricerca Matematica, Via Sommarive n. 14-Povo, 38123 Trento, Italy, or preferably by email to micheletti@fbk.eu. Applications can be submitted at any time, though it is recommended that they be submitted at least three months before the planned stay. They must contain a specific indication of the proposed dates for the visit and a list of publications for each applicant. For more information see cirm.fbk.eu/cirm-visiting-professors and cirm.fbk.eu/research-pairs.

—*Marco Andreatta, Director
CIRM*

News from BIRS

The Banff International Research Station for Mathematical Innovation and Discovery (BIRS) is now accepting proposals for its 2017 program. BIRS will again be hosting a forty-eight-week scientific program at its station in Banff. BIRS is also hoping to run an additional twenty to twenty-five workshops at its developing new station in Oaxaca, Mexico.

The mandate of BIRS is to provide an environment for creative interaction and the exchange of ideas, knowledge, and methods within the mathematical, statistical, and computing sciences and with related disciplines and industrial sectors. Each week, the station hosts either a full workshop (forty-two people for five days) or two half-workshops (each with twenty-one people for five days). As usual, BIRS provides full accommodation, board, and research facilities at no cost to the invited participants in a setting conducive to research and collaboration.

The deadline for five-day workshop and summer school proposals is **September 30, 2015**. Full information, guidelines, and online forms are available at the BIRS website, www.birs.ca.

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. The preferred date to apply for these programs is **September 30, 2015**. However, proposals for projects involving Research in Teams or Focused Research Groups can be submitted at any time, but they must be received at least four months before their requested start date. Proposal submissions should be made using the online submission form. See <https://www.birs.ca/proposals>.

—*Nassif Ghoussoub, Scientific Director
Banff International Research Station*

Modern Math Workshop, 2015, Washington, DC

The nine NSF-funded US-based math institutes present the annual Modern Math Workshop (MMW) on October 28–29 (Wednesday–Thursday) in the Washington DC area. The MMW is part of the institutes' Mathematical Sciences Diversity Initiatives and the workshop is a preconference activity of the SACNAS National Conference (Society for Advancement of Chicanos/Hispanics and Native Americans in Science; see sacnas.org/events/national-conf). The MMW includes two minicourses for undergraduates and talks related to the research programs at the math institutes that would be of interest to graduate students and early-career researchers. The workshop is intended to encourage minority undergraduates to pursue careers in the mathematical sciences and to assist undergrads, graduate students and recent PhDs in building their research networks. The MMW culminates on October 29 with a plenary lecture by Dr. Freeman Hrabowski, president of UMBC (The University of Maryland, Baltimore County). Minority undergraduates, graduate students, and postdocs are encouraged to attend the workshop. For more information and to register, please see www.msri.org/e/MMW2015.

—*From an MSRI announcement*

Mathematical Sciences Research Institute, Berkeley, CA

Call for Program Proposals

The Mathematical Sciences Research Institute invites the submission of preproposals for full- or half-year programs to be held at MSRI. Planning of such programs is generally done about three years ahead. Except in extraordinary cases, a subject is the focus of a program not more than once in ten years.

A scientific program at MSRI generally consists of up to one year (10 months) of concentrated activity in a specific area of current research interest in the mathematical sciences. MSRI usually runs two programs simultaneously, each with about forty mathematicians in residence at any given time. The most common program lengths are five months (typically in the form of a fall or spring semester program). Each program begins with a Connections for Women workshop, followed by an introductory workshop. The purpose of both is to introduce the subject to the broader mathematical community. The programs receive administrative and financial support from the institute, allowing organizers to focus on the scientific aspects of the activities.

The Scientific Advisory Committee (SAC) of the institute meets in January and November each year to consider preproposals for programs. Successful proposals are usually developed from the preproposal in a collaborative process between the proposers, the Directorate and the SAC, and

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may be considered at more than one meeting of the SAC before selection.

The scientific planning and organization of each program are the responsibility of a committee of organizers (aided by a liaison of the Directorate and the SAC). The organizers eventually recommend participants chosen from a pool of national and international applicants; they plan workshops and lecture series within the program which many more participants may attend. Each program is allocated a budget for subsistence and travel expenses.

How to submit a program preproposal. Proposals should be submitted to proposals@msri.org before **October 15** in time to be reviewed by the Scientific Advisory Committee at its early November meeting. Please see our website for specific preproposal requirements and further information: <https://www.msri.org/web/msri/scientific/request-for-proposals/propose-a-program>.

MSRI programs are funded by the National Science Foundation.

Call for Hot Topics Workshop Proposals

The Mathematical Sciences Research Institute invites the submission of proposals for “Hot Topic Workshops.” Each spring MSRI provides a yearly workshop called Hot Topics to showcase what is new, innovative, and interesting to the mathematical sciences community at the present time. The workshop should last five days (or less). A proposal should include a summary of what is going on in the field, especially what makes it suitable for treatment at this moment; a list of possible organizers and/or main speakers (this list need not be complete, and the proposers do not have to contact the people listed in advance); and any known information about other recent or proposed conferences in the area. Please include estimated date(s) of the workshop, noting alternate dates to allow coordination with other MSRI events.

The Scientific Advisory Committee (SAC) of the institute will review all proposals and select one workshop for spring 2017.

How to submit a proposal. Proposals should be submitted to proposals@msri.org before **October 15** in time to be reviewed by the Scientific Advisory Committee at its early November meeting.

Please see our website for specific proposal requirements and further information: www.msri.org/web/msri/scientific/request-for-proposals/propose-a-hot-topics-workshop.

MSRI workshops are funded by the National Science Foundation.

—From an MSRI announcement