Mathematics Opportunities

American Mathematical Society Centennial Fellowship

Invitation for Applications for Awards for 2017–2018 Deadline December 1, 2016

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 2017–2018 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, 2005, and September 1, 2014). 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, 2016. The award recipient will be announced in February 2017 or earlier, if possible.

Application information: Find Centennial application information at www.ams.org/ams-fellowships/. For questions, contact the Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294; prof-serv@ams.org; 401-455-4096.

—AMS Membership and Programs Department

Travel Grants for MCA 2017

Note: This travel grant program is contingent on receiving funding from the National Science Foundation.

This grant will permit partial travel support for up to 100 US mathematicians attending the Mathematical Congress of the Americas (MCA) that will take place July 24–28, 2017, in Montreal, Canada. The Society is preparing to administer the selection process.

Instructions on how to apply for support will be available in early September on the AMS website at www.ams.org/programs/travel-grants/mca. This travel grants program will be administered by the Membership and Programs Department, AMS, 201 Charles Street, Providence, RI 02904-2294. For questions or more information, contact Steven Ferrucci at sxf@ams.org, 800-321-4267, ext. 4113, or 401-455-4113.

This program is open to US mathematicians (those who are affiliated with a US institution and must be affiliated with a US institution at the time of travel). It is expected that this travel grant program will provide travel support for both US-based invited speakers (senior mathematicians
on a first-come-first-served basis up to the amount of the NSF grant) and early-career mathematicians. Early-career mathematicians (those within six years of their doctorates), women, and members of US groups underrepresented in mathematics are especially encouraged to apply. Invited speakers to MCA 2017 who are from US institutions should submit applications if funding is desired.

Applications will be evaluated by a panel of mathematicians accepting grants for partial support of the travel to MCA 2017 may not supplement them with any other NSF funds. Should NSF fund this program, it will be the intention of the NSF’s Division of Mathematical Sciences to provide no additional funds on its other regular research grants for travel to MCA in 2017. However, an individual mathematician who does not receive a travel grant may use regular NSF grant funds, subject to the usual restrictions and prior approval requirements.

All information currently available about the MCA 2017 program, organization, and registration procedure is located on the MCA 2017 website; [https://mca2017.org](https://mca2017.org).

—AMS Membership and Programs Department

### NRC-Ford Foundation Fellowships

Through its Fellowship Programs, the Ford Foundation seeks to increase the diversity of the nation’s college and university faculties, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity to enrich the education of all students. All citizens or nationals of the United States are eligible. 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, providing three years of support for individuals engaged in graduate study leading to a PhD or ScD degree. The deadline is **November 17, 2016**. Approximately thirty-six Dissertation Fellowships will be awarded, providing one year of support for individuals working to complete a dissertation leading to a PhD or ScD degree. The deadline is **November 10, 2016**. Approximately twenty-four Postdoctoral Fellowships will be awarded, providing one year of support for individuals engaged in postdoctoral study after the attainment of the PhD or ScD degree. The deadline is **November 10, 2016**. See [sites.nationalacademies.org/PGA/FordFellowships/index.htm](https://sites.nationalacademies.org/PGA/FordFellowships/index.htm) or contact infofell@nas.edu.

—From the Ford Foundation Fellowship Programs website

### AWM Travel Grants for Women

The National Science Foundation (NSF) and the Association for Women in Mathematics (AWM) sponsor travel grants for women mathematicians. AWM Travel Grants for Women Researchers enable women to attend research conferences in their fields. AWM 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. AWM Mathematics Mentoring Travel Grants are designed to help junior women develop long-term working and mentoring relationships with senior mathematicians. 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. See [https://sites.google.com/site/awmmath/programs/travel-grants](https://sites.google.com/site/awmmath/programs/travel-grants) for application materials and deadlines or email: awm@awm-math.org.

—From an AWM announcement

### Call for Nominations for Clay Research Fellowships

The Clay Mathematics Institute solicits nominations 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. For more information and submission instructions, see [www.claymath.org/programs/fellowship-nominations](https://www.claymath.org/programs/fellowship-nominations).

—From a Clay Mathematics Institute announcement

### Field of Dreams Conference

The National Alliance for Doctoral Studies in the Mathematical Sciences is pleased to announce the Tenth Annual Mathematical Field of Dreams Conference, which will be held November 4–6, 2016, in St. Louis, Missouri. The conference brings together faculty in the mathematical sciences with students from backgrounds underrepresented in those fields. To learn more and register, visit [mathalliance.org/2016-field-of-dreams-conference/](http://mathalliance.org/2016-field-of-dreams-conference/)

—From a Math Alliance announcement
2016 SACNAS Conference

The Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) 2016 National Diversity in STEM Conference, to be held October 13–15, 2016, in Long Beach, California, provides three days of cutting-edge science, training, mentoring, and cultural activities for students and scientists at all levels. In particular, there will be programs and mentoring in mathematics. For more information, including travel support, see the conference home page www.2016sacnas.org.

—From SACNAS announcements

NSA Mathematical Sciences Program

Since 1987, the Mathematical Sciences Program (MSP) at the National Security Agency (NSA) has provided grants to support individual research projects in algebra, discrete mathematics, number theory, probability and statistics, as well as grants to support Research Experiences for Undergraduates and conferences. As the deadline for this announcement approached, the MSP’s budget for fiscal year 2017 had not been established. Consequently, we were uncertain whether we would be able to support new proposals. For current information about the status of the program, please contact Charles Toll (chtoll1@nsa.gov) and/or Barbara Johnson (bajohn1@nsa.gov).

—NSA announcement

News from AIM

The American Institute of Mathematics (AIM) is accepting proposals for its scientific programs: Focused Workshops and SQuaREs. Proposals are submitted online; the deadline is November 1, 2016. See www.aimath.org for additional information.

Focused Workshop Program: AIM’s week-long workshops are distinguished by their specific mathematical goals. This may involve making progress on a significant unsolved problem or examining the convergence of two distinct areas of mathematics. Workshops are small in size, up to twenty-eight people, to allow for close collaboration among the participants. Researchers may apply to attend an upcoming AIM workshop. Each workshop supports several participants through an open application process. A list of upcoming workshops is available at www.aimath.org/workshops/upcoming/.

SQuaREs Program: AIM’s Structured Quartet Research Ensembles (SQuaREs) program brings together groups of four to six researchers for a week of focused work on a specific research problem, returning for up to three consecutive years.

—AIM announcement

News from CIRM

The Centro Internazionale per la Ricerca Matematica (CIRM) is planning the following activities in 2017. For further information on these programs, see cirm.fbk.eu/cirm-visiting-professors and cirm.fbk.eu/research-pairs.

Conferences. Proposals are invited for conferences and mathematical meetings to be held in 2017. The deadline for submission is September 30, 2016. See cirm.fbk.eu/conferences.

Visiting Professorships, Visiting Scholars, Research in Pairs. In 2017 CIRM expects to support two or three partners from different universities who intend to work together on a definite research project for a period of time ranging from one to six weeks.

—Marco Andreatta, Director, CIRM

News from BIRS

The Banff International Research Station for Mathematical Innovation and Discovery (BIRS) is now accepting proposals for its 2018 program. BIRS will again be hosting a forty-eight-week scientific program at its station in Banff, Alberta, Canada. BIRS is also hoping to run an additional twenty to twenty-five workshops at its affiliated station, Casa Matemática Oaxaca (CMO), in Mexico.

BIRS provides 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). BIRS provides full accommodations, 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 29, 2016. Full information, guidelines, and online forms are available at the BIRS website: www.birs.ca

BIRS will also operate its Research in Teams and Focused Research Groups programs, allowing smaller groups to meet for several weeks of uninterrupted work at the station. The preferred date to apply is September 29, 2016; however, proposals for projects involving Research in Teams or Focused Research Groups can be submitted at any time earlier than four months before their requested start date. See https://www.birs.ca/proposals for more information and application material.

—Nassif Ghoussoub
Scientific Director
Banff International Research Station
News from MSRI

Call for Program Proposals
The Mathematical Sciences Research Institute (MSRI) 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 program 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, to introduce the subject to the broader mathematical community. Successful proposals are usually developed from the pre-proposal in a collaborative process between the proposers, the Directorate, and the Scientific Advisory Committee (SAC). Proposals should be submitted to proposals@msri.org before October 15, 2016. For requirements and further information see https://www.msri.org/web/msri/scientific/request-for-proposals/propose-a-program.

Call for Hot Topics Workshop Proposals
Each spring MSRI provides a workshop called “Hot Topics” to showcase what is new, innovative, and interesting to the mathematical sciences community. The workshop should last five days or fewer. The SAC will review all proposals and select one workshop for spring 2018. Proposals should be submitted to proposals@msri.org by October 15, 2016. For requirements and further information, see www.msri.org/web/msri/scientific/request-for-proposals/propose-a-hot-topics-workshop.

—From MSRI announcements