

Mathematics Opportunities

Listings for upcoming math opportunities to appear in Notices may be submitted to notices@ams.org.

Call for Proposals for the 2020 AMS Short Courses

The AMS Short Course Subcommittee invites submissions of preliminary proposals for Short Courses to be offered on January 13–14, 2020, in coordination with the 2020 Joint Mathematics Meetings in Denver, Colorado. Members of the mathematical community are also welcome to suggest names of colleagues as potential organizers.

Preliminary proposals may be as short as one page, and suggestions and questions are welcome. Proposals should be sent via email to the Associate Executive Director (aed-mps@ams.org) with a cc to Robin Hagan Aguiar (rha@ams.org).

A short course typically incorporates a sequence of survey lectures and other activities focused on a single theme of applied mathematics. The Subcommittee is also interested in proposals that go beyond the traditional course in methodology and subject matter. Proposers might be interested in a webinar format or other mechanisms for reaching an audience that extends beyond those at the JMM site, or they may want to appeal to mathematicians who are considering careers in business, industry, government, and nonprofit sectors that utilize mathematical training and experience.

For full consideration, 2020 Short Course proposals should be submitted by **December 18, 2018**. More detailed guidance on proposals is available at www.ams.org/meetings/short-courses/2019ca1.

American Mathematical Society Centennial Fellowship

Invitation for Applications for Awards for 2019–2020
Deadline December 1, 2018

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 2019–2020 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, 2007, and September 1, 2016). 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, 2018**. The award recipient will be announced in February 2019 or earlier, if possible.

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

—AMS Professional Programs Department

AMS Epsilon Fund

The AMS Epsilon Fund awards grants to summer mathematics programs that support and nurture mathematically talented high school students in the United States. The deadline to apply for funding for summer 2019 programs is **December 15, 2018**. Applications are now being accepted online at MathPrograms.org (www.mathprograms.org).

For more information, go to www.ams.org/programs/edu-support/epsilon/emp-epsilon or contact the AMS Professional Programs Department by email at prof-serv@ams.org or by telephone at 800-321-4267, ext. 4060.

—AMS Professional Programs Department

*NSF Graduate Research Fellowships

The National Science Foundation's Graduate Research Fellowship Program supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based master's and doctoral degrees at US institutions. The NSF welcomes applications from all qualified students and strongly encourages underrepresented populations, including women, underrepresented racial and ethnic minorities, and persons with disabilities, to apply. Fellows receive a three-year annual stipend of US\$34,000 and opportunities for international research and professional development. Fellowships may be used to support graduate research at any accredited US institution. The deadline for the mathematical sciences is **October 26, 2018**. For further information, visit www.nsf.gov/funding/pgm_summ.jsp?pims_id=6201.

—From NSF announcements

*NSF Mathematical Sciences Research Institutes

The NSF Division of Mathematical Sciences invites proposals for Mathematical Sciences Research Institutes that will advance research in the mathematical sciences, increase the impact of the mathematical sciences in other disciplines, and expand the talent base engaged in mathematical research in the United States. This competition welcomes new projects from US sites, as well as renewal proposals from any of the US-based institutes that have

*The most up-to-date listing of NSF funding opportunities from the Division of Mathematical Sciences can be found online at www.nsf.gov/dms and for the Directorate of Education and Human Resources at www.nsf.gov/dir/index.jsp?org=ehr. To receive periodic updates, subscribe to the DMSNEWS listserv by following the directions at www.nsf.gov/mps/dms/about.jsp.

had previous funding from NSF. Required letters of intent are due **December 14, 2018**. Full proposals are due **March 14, 2019**. For further information, visit www.nsf.gov/funding/pgm_summ.jsp?pims_id=5302.

—NSF announcement

Call for Nominations for the Alan T. Waterman Award

The National Science Foundation (NSF) is soliciting nominations for the 2019 Alan T. Waterman Award. The award recognizes an outstanding young researcher in any field of science or engineering supported by the NSF. The award consists of a US\$1,000,000 grant over a five-year period for research at the institution of the recipient's choice. The deadline for nominations is **October 21, 2018**. Nominations must be submitted at www.fastlane.nsf.gov/honawards. For more details, see www.nsf.gov/od/waterman/waterman.jsp.

—From an NSF announcement

Jefferson Science Fellows Program

The Jefferson Science Fellows (JSF) program at the US Department of State involves the American academic science, technology, and engineering communities in the formulation and implementation of US foreign policy. Each fellow spends one year at the US Department of State or the US Agency for International Development (USAID) for an on-site assignment in Washington, DC, that may also involve extended stays at US foreign embassies and/or missions. The deadline for applications is **October 31, 2018**. For further information, email jsf@nas.edu or see sites.nationalacademies.org/PGA/Jefferson/index.htm.

—From a National Academies announcement

AAUW Educational Foundation Fellowships and Grants

The American Association of University Women (AAUW) has programs supporting women students and scholars at various stages of their careers. American Fellowships support women in full-time study to complete dissertations, conduct postdoctoral research, or prepare research for publication. Selected Professions Fellowships support women students in areas in which women's participation has traditionally been low, including computer/information sciences and mathematics/statistics. For further information about the fellowships, application procedures,

and deadlines, visit the website www.aauw.org/what-we-do/educational-funding-and-awards/

—From AAUW website

AWM Essay Contest

The Association for Women in Mathematics (AWM) and Math for America cosponsor an annual essay contest for biographies of contemporary women mathematicians and statisticians in academic, industrial, and government careers. This contest is open to students in Grades 6–8, Grades 9–12, and College Undergraduates. The deadline for the 2019 AWM Essay Contest is **January 31, 2019**. AWM is also currently seeking women mathematicians to volunteer as the subjects of these essays. See sites.google.com/site/awmmath/programs/essay-contest for complete information.

—AWM announcement

News from MSRI

Workshops

The Mathematical Sciences Research Institute (MSRI) will hold the following workshops during the spring of 2019. Established researchers, postdoctoral fellows, and graduate students are invited to apply for funding. It is the policy of MSRI to actively seek to achieve diversity in its workshops. Thus, a strong effort is made to remove barriers that hinder equal opportunity, particularly for those groups that have been historically underrepresented in the mathematical sciences.

MSRI has a resource to assist visitors with finding child care in Berkeley. For more information, please contact Sanjani Varkey at sanjani@msri.org.

The workshops are as follows:

January 28–30, 2019: Connections for Women: Derived Algebraic Geometry, Birational Geometry and Moduli Spaces. www.msri.org/workshops/861

January 31–February 8, 2019: Introductory Workshop: Derived Algebraic Geometry and Birational Geometry and Moduli Spaces. www.msri.org/workshops/862

March 6–8, 2019: Critical Issues in Mathematics Education 2019: Mathematical Modeling in K–16: Community and Cultural Context. www.msri.org/workshops/919

March 25–29, 2019: Derived Algebraic Geometry and Its Applications. www.msri.org/workshops/873

April 8–12, 2019: Hot Topics: Recent Progress in Landscapes Program. www.msri.org/workshops/855

May 6–10, 2019: Recent Progress in Moduli Theory. www.msri.org/workshops/869

MSRI is supported by the National Science Foundation, the National Security Agency, over 100 academic sponsor departments, a range of private foundations, and individual contributions.

Summer Research for Women in Mathematics

MSRI invites applications for their Summer Research for Women in Mathematics program. The purpose of the program is to provide space and funds to groups of women mathematicians to work on a research project at MSRI. Research projects can arise from work initiated at a women's conference or can be freestanding activities.

Groups of two to six women with partial results on an established project may submit an application to the program through MathPrograms.Org. Applications require a Program Description and a bio-sketch for each group member. The visits must take place between June 10, 2019 and August 2, 2019. Each group may apply to be in residence at MSRI for a minimum of two weeks, though longer visits are preferred.

Lodging, meals and reimbursement of travel expenses will be provided. For participants with children, MSRI will provide funding that makes it possible for the member to fully take part in the program.

Applications are due by **December 1, 2018**. Decisions will be announced by January 15, 2019. For more information, see msri.org/srw2019.

—MSRI announcements