Mathematics Opportunities

AMS–AAAS Mass Media Summer Fellowships

The AMS provides support each year for a graduate student in the mathematical sciences to participate in the American Association for the Advancement of Science (AAAS) Mass Media Science and Engineering Fellows Program. This summer fellowship program pairs graduate students with major media outlets nationwide, where they will research, write, and report on science news and use their skills to bring technical subjects to the general public.

The principal goal of the program is to increase the public’s understanding of science and technology by strengthening the connection between scientists and journalists to improve coverage of science-related issues in the media. Past AMS-sponsored fellows have held positions at National Public Radio, Scientific American, Voice of America, The Oregonian, the Chicago Tribune, and the Milwaukee Journal Sentinel.

Fellows receive a weekly stipend of US$500, plus travel expenses, to work for ten weeks during the summer as reporters, researchers, and production assistants in newsrooms across the country. They observe and participate in the process by which events and ideas become news, improve their ability to communicate about complex technical subjects in a manner understandable to the public, and increase their understanding of editorial decision making and of how information is effectively disseminated. Each Fellow attends an orientation and evaluation session in Washington, DC, and begins the internship in mid-June. Fellows submit interim and final reports to AAAS. A wrap-up session is held at the end of the summer.

Mathematical sciences faculty are urged to make their graduate students aware of this program. The deadline to apply for fellowships for the summer of 2017 is January 15, 2017. Further information about the fellowship program and application procedures is available online at www.aaas.org/programs/ams-fellowships/media-fellow/massmediafellow and through the AMS Washington Office, 1527 Eighteenth Street, NW, Washington, D.C. 20036; telephone: 202-588-1100; e-mail: amsc@ams.org.

—AMS Washington Office

*NSF Program in Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences

The Program in Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences (CDS&E-MSS) of the NSF accepts proposals that confront and embrace the host of mathematical and statistical challenges presented to the scientific and engineering communities by the ever-expanding role of computational modeling and simulation on the one hand and the explosion in production of digital and observational data on the other. The program encourages submission of proposals that include multidisciplinary collaborations for the training of mathematicians and statisticians in CDS&E.

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.

—NSF announcement

National Defense Science and Engineering Graduate Fellowships

To help increase the number of US citizens trained in disciplines of military importance in science and engineering, the Department of Defense awards National Defense Science and Engineering Graduate Fellowships to individuals who have demonstrated ability and special aptitude for advanced training in science and engineering. The fellowships are awarded for a period of three years for study and research leading to doctoral degrees in any of fifteen scientific disciplines. Application forms are available online at ndseg.asee.org/apply_online and are due December 9, 2016. For further information, see ndseg.asee.org/.

—From an NDSEG announcement

CRM Intensive Research Programs


—From a CRM announcement

STaR Fellowship Program

The Service, Teaching, and Research (STaR) Program of the Association of Mathematics Teacher Educators (AMTE) supports the development of early-career mathematics educators, including their induction into the professional community of university-based teacher educators and researchers in mathematics education. Senior and mid-career mathematics education faculty organize and facilitate STaR events, serving as mentors to Fellows. Applications are due December 1, 2016; see https://www.amte.net/star/apply.

—From an AMTE announcement

Broad Fellows Sought

The Broad Institute, a collaborative institution with Harvard University, the Massachusetts Institute of Technology, and major teaching hospitals in Boston, is seeking outstanding candidates in mathematical, computational, or physical sciences to join the Institute as Broad Fellows. The Broad Fellows program provides opportunities for exceptional young quantitative and genomic scientists with exciting and innovative scientific visions to develop independent research programs. The Institute provides full support for the Fellows to establish their own independent research program, including salary and research expenses for themselves and a small team. For further information and application instructions, see the website https://www.broadinstitute.org/partnerships/academic-affairs/broad-fellows/broad-fellows-program. Applications will begin to be reviewed on November 30, 2016.

—Aviv Regev, Massachusetts Institute of Technology

Twenty Years Ago in the Notices

December 1996:

A Tale of Two Sieves, by Carl Pomerance.

This masterly exposition, which received the inaugural AMS Conant prize, discusses two factorization sieves—the quadratic sieve and the number field sieve—and some of the many people who helped to develop them. www.ams.org/notices/199612/pomerance.pdf