
Mathematics Opportunities

Call for Applications: 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 for application for funding for summer 2005 programs is **December 15, 2004**. Application materials are available at <http://www.ams.org/outreach/epsilon.html> or by mail: Membership and Programs Department, AMS, 201 Charles Street, Providence, RI 02904-2294; telephone 800-321-4267, ext. 4058; email: prof-serv@ams.org.

—AMS announcement

Enhancing the Mathematical Sciences Workforce in the 21st Century

The Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) sponsors a program entitled Enhancing the Mathematical Sciences Workforce in the 21st Century (EMSW21). This program includes Grants for Vertical Integration of Research and Education (VIGRE), Research Training Groups in the Mathematical Sciences (RTG), and Mentoring through Critical Transition Points in the Mathematical Sciences (MCTP).

An updated program announcement is now available. Please see <http://www.nsf.gov/pubsys/ods/getpub.cfm?nsf04600>. The deadline for proposals is **October 12, 2004**.

—From an NSF announcement

Humboldt Foundation Offers Fellowships

The Alexander von Humboldt Foundation awards annual fellowships to foreign scholars holding doctorates to support research projects of their own choosing in Germany. The fellowships are offered for research visits of between six and twelve months. Scholars in the United States may also apply for two-year postdoctoral fellowships or summer research fellowships.

Applicants from all countries and in all academic disciplines may apply. Approximately 500 research fellowships are available each year. Decisions are based primarily on the quality and feasibility of the proposed research projects and on the applicants' international publications. For more information on application requirements and procedure, consult the foundation's website at http://www.avh.de/en/programme/stip_aus/index.htm.

—From a Humboldt Foundation announcement

Call for Nominations for Clay Research Fellows

The Clay Mathematics Institute (CMI) is currently accepting nominations for the position of Clay Research Fellow. Fellows are employed for a period of two to five years and may conduct their research at whatever location or combination of locations best suits their research. In addition to a generous salary, the fellows receive support for travel and research expenses, as well as provisions for collaboration.

The primary selection criteria are the exceptional quality of the candidate's research and the candidate's promise to become a mathematical leader. At the time of their selection, most recent appointees were graduating Ph.D.

students. However, mathematicians under age thirty have sometimes been appointed. Selection decisions are made by CMI's Scientific Advisory Board.

To nominate a candidate, please send the following items by **October 30, 2004**: (1) letter of nomination, (2) names and contact information of two other references, (3) curriculum vitae, and (4) publication list for the nominee. Nominations should be sent to Clay Mathematics Institute, One Bow Street, Cambridge, MA 02138. Electronic submissions are also accepted at nominations@claymath.org.

Information about Clay Research Fellows is also available on the CMI website at www.claymath.org/fas/research_fellows/. Additional information may be obtained by calling 617-995-2600 or emailing nominations@claymath.org.

—From a CMI announcement

AMS-AAAS Mass Media Summer Fellowships

The American Association for the Advancement of Science (AAAS) sponsors the Mass Media Science and Engineering Summer Fellows Program through which graduate students work during the summer in major media outlets. The AMS provides support each year for one or two graduate students in the mathematical sciences to participate in the program. In past years the AMS-sponsored fellows have held positions at *Scientific American*, *Business Week*, *Voice of America*, *Discovery Channel Online*, *National Geographic Television*, *Popular Science*, *The Chicago Tribune*, and *Time* magazine.

Fellows receive a weekly stipend of \$450 plus travel expenses to work for ten weeks during the summer as reporters, researchers, and production assistants in media organizations. 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 the 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 2005 is **January 15, 2005**. Further information about the fellowship program and application procedures is available online at <http://ehrweb.aaas.org/massmedia.htm> or contact: Stacey Pasco, Manager, Mass Media Program, AAAS Mass Media Science and Engineering Fellows Program, 1200 New York Avenue, NW, Washington, DC 20005; telephone: 202-326-6441; fax: 202-371-9849; or the AMS Washington Office, 1527 Eighteenth Street, NW, Washington, DC

20036; telephone: 202-588-1100; fax: 202-588-1853; email: amsdc@ams.org.

—Elaine Kehoe

Call for Nominations for the 2005 Fermat Prize

The Fermat Prize for Mathematics Research is awarded every two years by the Université Paul Sabatier. The 2005 Fermat Prize will carry a cash award of 20,000 euros (about US\$24,000). The prize is intended to recognize research in fields in which Pierre Fermat made significant contributions, particularly statements of variational principles, foundations of probability and analytical geometry, and number theory. Candidates should be under the age of forty-five, and the work should have been done within the past five years.

The deadline for nominations is **June 30, 2005**. For more information, see http://www.ups-tlse.fr/ACTUALITES/Sciences/Prix_Fermat_2004/Areglement.html.

—From a Université Paul Sabatier announcement

AWM Essay Contest

To increase awareness of women's ongoing contributions to the mathematical sciences, the Association for Women in Mathematics (AWM) is holding an essay contest for biographies of contemporary women mathematicians and statisticians in academic, industrial, and government careers. The 2004 contest is sponsored by Sandia National Laboratories.

The essays will be based primarily on interviews with women who are currently working in mathematical sciences careers. The contest is open to students in the following categories: 6th–8th grades, 9th–12th grades, and college undergraduates. At least one winning submission will be chosen from each category. Winners will receive a prize, and their essays will be published on the AWM website. A grand prize winner will have his or her submission published in the *AWM Newsletter* as well. The deadline for entries is **October 29, 2004**.

In addition to student entries, organizers are currently seeking women mathematicians to volunteer as the subjects of these essays.

For more information, go to <http://www.awm-math.org/biographies/contest.html> or contact Victoria Howle, the contest organizer, by email at vehowle@sandia.gov or by postal mail at Sandia National Labs, MS 9159, P.O. Box 969, Livermore, CA 94551.

—From an AWM announcement