Mathematics Opportunities

AMS-AAAS Mass Media Summer Fellowships

The American Mathematical Society 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 Scientific American, Voice of America, KUNC-FM Radio, National Geographic Television, the Oregonian, Popular Science, the Chicago Tribune, the Milwaukee Journal Sentinel, and WOSU-AM Radio.

Fellows receive a weekly stipend of US$450, 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 2013 is January 15, 2013. Further information about the fellowship program and application procedures is available online at http://www.aaas.org/programs/education/MassMedia; or applicants may contact Rahman Culver, Manager, Mass Media Program, AAAS Mass Media Science and Engineering Fellows Program, 1200 New York Avenue, NW, Washington, DC 20005; telephone 202-326-6645; fax 202-371-9849; email raculver@aaas.org. Further information is also available at http://www.ams.org/programs/ams-fellowships/media-fellow/.

Call for Applications for Workshop “How to Run a Math Camp”

March 6–8, 2013, American Institute of Mathematics, Palo Alto, California

Organizers: Ellen J. Maycock, Max Warshauer

This workshop, sponsored by the American Institute of Mathematics (AIM), the American Mathematical Society (AMS), and the National Science Foundation (NSF), will bring together directors, organizers, and prospective organizers of summer programs or math camps in the United States. The main goals of this workshop are to provide advice and support for individuals who have recently started or are interested in starting a math camp, as well as to provide experienced directors of math camps an opportunity to share their experiences and knowledge with each other and with new directors. We invite applications from individuals or teams of up to two people. We especially encourage participation from those less experienced at running math camps and also from individuals who are thinking of starting a math camp.

Some of the topics to be covered at this workshop will include:

- Increasing diversity
- Obtaining funding: applying for grants (and metrics, quantifying outcomes from year to year)
- The basics of starting a math camp: advice for new programs
- The nuts and bolts of running a camp
- Curriculum development
- Serving different student populations

Along with the organizers of this workshop, an advisory board will provide additional help in deciding topics for the workshop and will participate in giving talks and running breakout sessions. Members of this advisory board are: Luis Cáceres, University of Puerto Rico, Mayagüez (PROTaSM); Wendy Hines, University of Nebraska-Lincoln (All Girls/All Math); Stephen Maurer, Swarthmore College.
Space and funding are available for a few more participants. If you would like to participate, please apply by filling out the online form no later than November 6, 2012.

Applications are open to all, and we especially encourage women, underrepresented minorities, junior mathematicians, and researchers from primarily undergraduate institutions to apply.

To view the workshop description and apply, visit http://www.aimath.org/ARCC/workshops/mathcamp.html. Before submitting an application, please read the description of the AIM style of workshop at http://aimath.org/research/aimstyle.html.

For more information, email workshops@aimath.org.

—Ellen Maycock
AMS Membership and Programs Department

NSF Program ADVANCE

The National Science Foundation (NSF) sponsors the ADVANCE Program in an effort to increase the representation and advancement of women in academic science and engineering careers.

In 2012 the program will support three types of projects. Partnerships for Adaptation, Implementation, and Dissemination (PAID) awards support analysis, adaptation, dissemination, and use of existing innovative materials and practices that have been demonstrated to be effective in increasing representation and participation of women in academic science and engineering careers. This category of award also supports scientific research designed to advance understanding of gender in academic science and engineering careers. The deadline for required letters of intent is October 5, 2012; the deadline for full proposals is November 8, 2012.

Institutional Transformation (IT) awards support academic institutional transformation to promote the increased participation and advancement of women scientists and engineers in academe. These awards support innovative and comprehensive programs for institution-wide change. The deadline for letters of intent for these awards is October 4, 2013; the full proposal deadline is November 12, 2013.

Institutional Transformation Catalyst (IT-Catalyst) awards are designed to support institutional self-assessment activities, such as basic data collection and analysis and policy review, in order to identify specific issues in the recruitment, retention, and promotion of women faculty in institutions of higher education. The deadline for letters of intent for these awards is October 4, 2013, and the full proposal deadline is November 12, 2013. Proposals are sought from both men and women for creative strategies to realize the goals of the ADVANCE Program. Members of underrepresented minority groups and individuals with disabilities are especially encouraged to apply. Proposals that address the participation and advancement of women with disabilities and women from underrepresented minority groups are encouraged. For more information see http://www.nsf.gov/pubs/2012/nsf12584/nsf12584.htm?WT.mc_id=USNSF_36&WT.mc_ev=click

—From an NSF announcement

NSF Conferences and Workshops in the Mathematical Sciences

The National Science Foundation (NSF) supports conferences, workshops, and related events (including seasonal schools and international travel by groups). Proposals for conferences, workshops, or conference-like activities may request funding of any amount and for durations of up to three years. Proposals may be submitted only by universities and colleges and by nonprofit nonacademic institutions. For full information, including deadlines for each disciplinary program, see the website http://www.nsf.gov/pubs/2010/nsf10578/nsf10578.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

—From an NSF announcement

Clay Mathematics Institute Workshops

The Clay Mathematics Institute (CMI) is currently seeking proposals for funded workshops to be held in the Mathematical Institute in Oxford, United Kingdom. CMI intends to conduct a program of workshops of generally 10–20 persons, the aim of which is to bring a set of researchers together quickly outside the usual grant and application cycle when this is likely to result in significant progress. An application submitted three months before the workshop is sufficient. Funding for at least 10 people is available for each workshop. Proposals should be sent to Nick Woodhouse (nwoodh@maths.ox.ac.uk) and copied to Naomi Kraker (kraker@maths.ox.ac.uk).

—CMI announcement

MSRI Call for 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 in advance. 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 (ten 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 thirty mathematicians in residence at any given time. The most common program lengths are one year and 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 workshops 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.

How to submit a program preproposal: 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 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 recommend participants in the program; they also plan workshops within the program, which many more participants may attend. Each program is allocated a budget for subsistence and travel expenses.

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 Announcement

News from MSRI

The Mathematical Sciences Research Institute (MSRI) invites applications for two hundred Research Members and thirty semester-long Postdoctoral Fellows in the following programs: Mathematical General Relativity (August 19 to December 20, 2013), Optimal Transport: Geometry and Dynamics (August 19 to December 20, 2013), Algebraic Topology (January 20 to May 23, 2014), and Model Theory, Arithmetic Geometry and Number Theory (January 20 to May 23, 2014). Research Memberships are intended for researchers who will be making contributions to a program and who will be in residence for one or more months. Postdoctoral Fellowships are intended for recent Ph.D.’s. Interested individuals should carefully describe the purpose of their proposed visit and indicate why a residency at MSRI will advance their research program. To receive full consideration, an application must be submitted, including all letters of support, by December 1, 2012. It is the policy of MSRI to actively seek diversity in its programs and 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. Application information: http://www.msri.org/web/msri/scientific/member-application

—MSRI Announcement

Geometries

A. B. Sossinsky,
Independent University of Moscow, Russia

An innovative modern exposition of geometry in which Felix Klein’s Erlangen Program is systematically used as the basis for defining various geometries.

Student Mathematical Library; Volume 64; 2012; 301 pages; Softcover; ISBN: 978-0-8218-7571-1; List US$48; AMS members US$38.40; Order code STML/64

AMS BOOKSTORE www.ams.org/bookstore

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Mathematics
Faculty Position(s)

The Department of Mathematics invites applications for tenure-track faculty position(s) at the rank of Assistant Professor in all areas of mathematics. Other things being equal, preference will be given to areas consistent with the Department’s strategic planning.

Applicants should have a PhD degree and strong experience in research and teaching. Applicants with exceptionally strong qualifications and experience may be considered for position(s) above the Assistant Professor rank.

Starting rank and salary will depend on qualifications and experience. Fringe benefits include medical/dental benefits and annual leave. Housing will also be provided where applicable. Initial appointment will be on a three-year contract, renewable subject to mutual agreement. A gratuity will be payable upon successful completion of the contract.

Applications received on or before 31 December 2012 will be given full consideration for appointment in 2013. Applications received afterwards will be considered subject to the availability of position(s). Applicants should send their curriculum vitae together with at least three research references and one teaching reference to the Human Resources Office, HKUST, Clear Water Bay, Kowloon, Hong Kong. Applicants for position(s) above the Assistant Professor rank should send curriculum vitae and the names of at least three research referees to the Human Resources Office.

More information about the University is available on the University’s homepage at http://www.ust.hk

(Information provided by applicants will be used for recruitment and other employment-related purposes.)