
Mathematics Opportunities

Math for America Fellowships

Math for America (MfA) is a nonprofit organization with a mission to improve mathematics education in U.S. public secondary schools by recruiting, training, and retaining outstanding mathematics teachers and leaders. MfA offers fellowships for new and experienced teachers and school leaders. The MfA Master Teacher Fellowship is a four-year program that rewards outstanding experienced public secondary school mathematics and science teachers. Master Teacher Fellowships are available in Berkeley, Boston, New York City, Utah, and Washington, DC. The application deadline for Berkeley, Boston, and Utah is **April 27, 2014**. The New York City deadlines are **April 27, 2014** (priority deadline) and **July 20, 2014** (regular deadline). The deadline for Washington, DC, is **May 30, 2014**. The Math for America Early Career Fellowship is awarded to public secondary school mathematics teachers early in their careers. MfA Early Career Fellows exhibit outstanding potential, a dedication to professional development, and an interest in collaboration with the Math for America community. The program provides professional support and growth opportunities for new teachers. The MfA Early Career Fellowship requires a commitment of four years. Applications are being accepted for the Early Career Fellowship in New York City. The deadline is **April 27, 2014**. For more information and to apply, see <http://www.mathforamerica.org/web/guest/apply>.

—From an MfA announcement

NSF Postdoctoral Research Fellowships

The National Science Foundation (NSF) awards Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) for appropriate research in areas of the mathematical sciences, including applications to other disciplines. Awardees are permitted to choose research environments that will have maximal impact on their future scientific development. Awards are made in the form of either

Research Fellowships or Research Instructorships. The Research Fellowship option provides full-time support for any eighteen academic-year months in a three-year period in intervals not shorter than three consecutive months. The Research Instructorship option provides either two academic years of full-time support or one academic year of full-time and two academic years of half-time support. Under both options the award includes six summer months; however, no more than two summer months of support may be received in any calendar year. Under both options, the stipend support for twenty-four months (eighteen academic-year months plus six summer months) will be provided within a forty-eight-month period. The deadline for proposals is **October 15, 2014**. See <http://www.nsf.gov/pubs/2012/nsf12496/nsf12496.htm>.

—From an NSF announcement

Mentoring through Critical Transition Points in the Mathematical Sciences

The National Science Foundation (NSF) Mentoring through Critical Transition Points in the Mathematical Sciences (MCTP) program provides funds for the training of U.S. students and postdoctoral researchers in the mathematical sciences. Proposals are solicited from departments of the mathematical sciences to support projects that are intended to improve training at critical transition points in the educational careers of students and junior researchers. MCTP awards are intended to support training programs that have strong potential to increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other NSF-supported disciplines. The deadline for full proposals is **June 3, 2014**. For more information see <http://www.nsf.gov/pubs/2011/nsf11542/nsf11542.htm>.

—From an NSF announcement

Research Training Groups in the Mathematical Sciences

The National Science Foundation (NSF) Research Training Groups in the Mathematical Sciences (RTG) program provides funds for the training of U.S. students and postdoctoral researchers in the mathematical sciences. Proposals are solicited from groups of researchers based in a subarea of the mathematical sciences or linked by a multidisciplinary theme to support training at educational levels from undergraduate to postdoctoral within that focus. RTG awards are intended to support training programs that have strong potential to increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other NSF-supported disciplines. The deadline for full proposals is **June 3, 2014**. For more information see <http://www.nsf.gov/pubs/2011/nsf11540/nsf11540.htm>.

—From an NSF announcement

International Mathematics Competition for University Students

The Twenty-first International Mathematics Competition (IMC) for University Students will be held July 29–August 4, 2014, at American University in Blagoevgrad, Bulgaria. Participating universities are invited to send several students and one teacher; individual students are welcome. Students completing their first, second, third, or fourth years of university education are eligible. The competition will consist of two sessions of five hours each. Problems will come from the fields of algebra, analysis (real and complex), geometry, and combinatorics. The working language will be English. See the website <http://www.imc-math.org.uk/> or contact John Jayne, University College London, Gower Street, London WC1E 6BT, United Kingdom; telephone: +44 (0)77 40304010; email: j.jayne@ucl.ac.uk; or Chrisina Jayne, Computing Department, Coventry University; email: chrisina.jayne@gmail.com.

—John Jayne
University College London

NSF-CBMS Regional Conferences 2014

With funding from the National Science Foundation (NSF), the Conference Board of the Mathematical Sciences (CBMS) will hold eight NSF-CBMS Regional Research Conferences during the summer of 2014. These conferences are intended to stimulate interest and activity in mathematical research. Each five-day conference features a distinguished lecturer who delivers ten lectures on a topic of

important current research in one sharply focused area of the mathematical sciences. The lecturer subsequently prepares an expository monograph based on these lectures.

Support for about thirty participants will be provided for each conference. Both established researchers and interested newcomers, including postdoctoral fellows and graduate students, are invited to attend. Information about an individual conference may be obtained by contacting the conference organizer. The conferences to be held in 2014 follow.

May 12–16, 2014: Combinatorial Zeta and L -functions. Wen-Ching Winnie Li, lecturer. Sundance Resort, Utah. Organizers: Jasbir S. Chahal, 801-422-2271, jasbir@math.byu.edu; and Michael D. Barrus, 801-422-2336, barrus@math.byu.edu. Conference website: math.byu.edu/cbms.

May 27–31, 2014: Inverse Scattering and Transmission Eigenvalues. David Colton, lecturer. University of Texas at Arlington. Organizer: Tuncay Aktosun, 817-272-1545, aktosun@uta.edu. Conference website: fermat.uta.edu/cbms2014.

June 10–15, 2014: Mathematical Foundations of Transformation Optics. Allan Greenleaf, lecturer. Howard University. Organizers: M. F. Mahmood, 202-806-6295, mmahmood@howard.edu; and Anjan Biswas, abiswas@desu.edu. Conference website: www.coas.howard.edu/mathematics/cbms2014.html.

June 16–20, 2014: Quantum Spin Systems. Bruno Nachtergaele, lecturer. University of Alabama at Birmingham. Organizers: Shannon Starr, 205-934-8577, s1starr@uab.edu; Paul H. Jung, 205-934-5266, pjung@uab.edu; and Gunter Stolz, 205-934-2154, stolz@uab.edu. Conference website: www.uab.edu/cas/mathematics/events/nsf-cbms-conference-2014.

June 23–27, 2014: Fast Direct Solvers for Elliptic PDEs. Gunnar Martinsson, lecturer. Dartmouth College. Organizers: Alex H. Barnett, 603-646-3178, ahb@math.dartmouth.edu; Min Hyung Cho, 603-646-9847, Min.H.Cho@dartmouth.edu; Adrianna Gillman, 603-646-2293, adrianna.gillman@dartmouth.edu; and Leslie F. Greengard, 212-998-3306, greengard@courant.nyu.edu. Conference website: www.math.dartmouth.edu/~fastdirect/.

June 28–July 2, 2014: Mathematical Phylogeny Conference. Mike Steel, lecturer. Winthrop University. Organizers: Joe Rusinko, 803-323-4643, rusinkoj@winthrop.edu; and Trent Kull, 803-323-2211, kullt@winthrop.edu. Conference website: www.birdnest.org/phylogeny/.

July 6–10, 2014: Higher Representation Theory. Raphael Rouquier, lecturer. North Carolina State University. Organizer: Naihuan Jing, 919-513-3584, jing@unity.ncsu.edu. Conference website: www.math.ncsu.edu/~jing/conf/CBMS/cbms14.html.

July 21–25, 2014: Problems of PDEs Related to Fluids. Peter Constantin, lecturer. Oklahoma State University. Organizer: Jiahong Wu, 405-744-5788, jiahong@math.okstate.edu. Conference website: www.math.okstate.edu/nfs-cbms_constantin.

—From a CBMS announcement