Mathematics Opportunities

Call for Nominations for ICTP Ramanujan Prize

The Abdus Salam International Centre for Theoretical Physics (ICTP) invites nominations for the 2010 Ramanujan Prize for young mathematicians from developing countries. The prize, funded by the Niels Henrik Abel Memorial Fund, carries a cash award of US$15,000 and an allowance to visit ICTP to deliver a lecture.

The prize is awarded annually to a researcher from a developing country who is under forty-five years of age on December 31 of the year of the award and who has conducted outstanding research in a developing country. Researchers working in any branch of the mathematical sciences are eligible. The deadline for receipt of nominations is **September 30, 2010**. For further information, see the website `http://prizes.ictp.it/Ramanujan/`.

—From an ICTP announcement

Call for Nominations for Sloan Fellowships

Nominations for candidates for Sloan Research Fellowships, sponsored by the Alfred P. Sloan Foundation, are due by **September 15, 2010**. A candidate must be a member of the regular faculty at a college or university in the United States or Canada and must have received the Ph.D. or equivalent within the six years previous to the nomination. For information, write to: Sloan Research Fellowships, Alfred P. Sloan Foundation, 630 Fifth Avenue, Suite 2550, New York, New York 10111-0242, or consult the foundation's website: `http://www.sloan.org/fellowships`.

—From a Sloan Foundation announcement

Call for Entries for Ferran Sunyer i Balaguer Prize

The Ferran Sunyer i Balaguer Foundation invites entries for the 2010 Ferran Sunyer i Balaguer Prize. The prize is awarded for a mathematical monograph of an expository nature presenting the latest developments in an active area of research in mathematics. The prize consists of 15,000 euros (approximately US$18,500) and publication of the winning monograph in Birkhäuser Verlag's series "Progress in Mathematics". The deadline for submission is **December 3, 2010**. For more information see the website `http://ffsb.iec.cat`.

—From a Ferran Sunyer i Balaguer Foundation announcement

Call for Nominations for 2010 Sacks Prize

The Association for Symbolic Logic (ASL) invites nominations for the 2010 Sacks Prize for the most outstanding doctoral dissertation in mathematical logic. The Sacks Prize consists of a cash award and five years' free membership in the ASL. The deadline for nominations is **September 30, 2010**.

General information about the prize is available at `http://www.aslonline.org/info-prizes.html`. For details about nomination procedures, see `http://www.aslonline.org/Sacks_nominations.html`.

—From an ASL announcement

NSF Mathematical Sciences Postdoctoral Research Fellowships

The Mathematical Sciences Postdoctoral Research Fellowship program of the Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) awards fellowships each year that are designed to permit awardees to choose research environments that will have maximal impact on their future scientific development. Awards of these fellowships are made for appropriate research in areas of the mathematical sciences, including applications to other disciplines. Fellows may opt to choose either a research fellowship or a research instructorship. The deadline for this year's applications is **October 20, 2010**. Applications must be submitted via FastLane on the World Wide Web. For more information see the website `http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5301`.

—From an NSF announcement

NSF Focused Research Groups

The Focused Research Groups (FRG) activity of the Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) supports small groups of researchers in the mathematical sciences.

The DMS has announced deadline dates for the fiscal year 2010 competition for FRG grants. The deadline for receipt of the required letters of intent to submit FRG proposals is **August 20, 2010**. The deadline date for full proposals is **September 17, 2010**. The FRG solicitation may be found on the Web at `http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5671`.

—From an NSF announcement

NSA Mathematical Sciences Grants and Sabbaticals Program

As the nation's largest employer of mathematicians, the National Security Agency (NSA) is a strong supporter of the academic mathematics community in the United States. Through the Mathematical Sciences Program, the NSA provides research funding and sabbatical opportunities for eligible faculty members in the mathematical sciences.

Grants for Research in Mathematics. The Mathematical Sciences Program (MSP) supports self-directed, unclassified research in the following areas of mathematics: algebra, number theory, discrete mathematics, probability, and statistics. The program also supports conferences and workshops (typically in the range of US$15,000–$20,000) in these five mathematical areas. The program does not entertain research or conference proposals that involve cryptology. Research support may include summer salary for faculty members, up to US$7,000 for graduate student support, travel assistance, and other miscellaneous expenses. Proposals that involve participation by women and other individuals from underrepresented backgrounds are encouraged.

Principal investigators, graduate students, and all other personnel supported by NSA grants must be U.S. citizens or permanent residents of the United States at the time of proposal submission. Proposals should be submitted **electronically** by **October 15, 2010**, via the program website: `http://www.nsa.gov/research/math_research/index.shtml`.

Sabbatical Program. NSA's Mathematics Sabbatical Program offers mathematicians, statisticians, and computer scientists the unique opportunity to develop skills in directions that would be nearly impossible anywhere else. Sabbatical employees work side by side with other NSA scientists on projects that involve cryptanalysis, coding theory, number theory, discrete mathematics, statistics and probability, and many other subjects. Visitors spend 9–24 months at NSA, and most find that within a very short period of time they are able to make significant contributions. NSA pays 50 percent of salary and benefits during academic months and 100 percent of salary and benefits during summer months of the sabbatical detail. A monthly housing supplement is available to help offset the cost of local lodging. On average, three sabbatical positions are available per year.

Applicants must be U.S. citizens and must be able to obtain a security clearance. A complete application includes a cover letter and curriculum vitae with list of significant publications. The cover letter should describe the applicant's research interests, programming experience and level of fluency, and how an NSA sabbatical would affect teaching and research upon return to academia. Additional information is available about the Sabbatical Program at the following website: `http://www.nsa.gov/research/math_research/sabbaticals/index.shtml`.

For more information about the Grants or Sabbaticals Program, please contact the program office at 301-688-0400. You may also send email correspondences to `mspgrants@nsa.gov`.

—Mathematical Sciences Program announcement

Research Experiences for Undergraduates

The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation (NSF). Student research may be supported in two forms: REU supplements and REU sites.

REU supplements may be requested for ongoing NSF-funded research projects or may be included in proposals for new or renewal NSF grants or cooperative agreements. REU sites are based on independent proposals to initiate and conduct undergraduate research participation projects for a number of students. REU site projects may be based in a single discipline or academic department or on interdisciplinary or multidepartment research opportunities with a strong intellectual focus. Proposals with an international dimension are welcomed. A partnership with the Department of Defense supports REU sites in research areas relevant to defense. Undergraduate student participants supported with NSF funds in either supplements or sites must be citizens or permanent residents of the United States or its possessions.

Students may not apply to NSF to participate in REU activities. Students apply directly to REU sites and should consult the directory of active REU sites on the Web at `http://www.nsf.gov/crssprgm/reu/reu_search.cfm`. The deadline for full proposals for REU sites is **August 25, 2010**. Deadline dates for REU supplements vary with the research program; contact the program director for more information. The full program announcement can be found at the website `http://www.nsf.gov/pubs/2009/nsf09598/nsf09598.htm`.

—From an NSF announcement