
Mathematics Opportunities

American Mathematical Society Centennial Fellowships

Invitation for Applications for Awards for 2003–2004

Deadline December 1, 2002

The AMS Centennial Research Fellowship Program makes awards annually to outstanding mathematicians to help further their careers in research. From 1997–2001, the fellowship program was aimed at recent Ph.D.'s. Recently the AMS Council approved changes in the rules for the fellowships. The eligibility rules are as follows.

The primary selection criterion for the Centennial Fellowship is the excellence of the candidate's research. Preference will be given to candidates who have not had extensive fellowship support in the past. Recipients may not hold the Centennial Fellowship concurrently with another research fellowship such as a Sloan or NSF Postdoctoral Fellowship. Under normal circumstances, the fellowship cannot be deferred. A recipient of the fellowship shall have held his or her doctoral degree for at least three years and not more than twelve years at the inception of the award. Applications will be accepted from those currently holding a tenured, tenure-track, postdoctoral, or comparable (at the discretion of the selection committee) position at an institution in North America.

The stipend for fellowships awarded for 2003–2004 is expected to be approximately \$57,000, with an additional expense allowance of about \$1,600.

The number of fellowships to be awarded is small and depends on the amount of money contributed to the program. The trustees have arranged a matching program from general funds in such a way that funds for at least one fellowship are guaranteed. Due to a change in eligibility criteria and an increase in the stipend beginning in 2002–2003, it is expected that two fellowships will be awarded. A list of previous fellowship winners can be found at <http://www.ams.org/secretary/prizes.html>.

Applications should include a cogent plan indicating how the fellowship will be used. The plan should include travel to at least one other institution and should demonstrate that the fellowship will be used for more than reduction of teaching at the candidate's home institution. The selection committee will consider the plan in addition to the quality of the candidate's research and will try to award the fellowship to those for whom the award would make a real difference in the development of their research careers. Work in all areas of mathematics, including interdisciplinary work, is eligible.

The deadline for receipt of applications is **December 1, 2002**. Awards will be announced in February 2003 or earlier if possible.

Application forms are available via the Internet at <http://www.ams.org/employment/centflyer.html>. For paper copies of the form, write to the Professional Services Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294; or send electronic mail to prof-serv@ams.org; or call 401-455-4107.

—AMS 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 for research in pure mathematics, applied mathematics and operations research, and statistics. The deadline for this year's applications is **October 18, 2002**. Applications must be submitted via FastLane on the World Wide Web. Go to <http://www.fastlane.nsf.gov/fastlane.jsp> and click on "Postdoctoral Fellowships". Information can be found there for the Mathematical Sciences Postdoctoral Research Fellowships, as

well as other NSF fellowship opportunities. For more information telephone the DMS at 703-306-1870 or e-mail: msprf@nsf.gov.

—From an NSF announcement

NSF Graduate Fellowships

The National Science Foundation (NSF) awards Graduate Research Fellowships to graduating seniors and first-year graduate students. These are three-year fellowships awarded to U.S. students for full-time graduate study at the institutions of their choice. The fellowships include a stipend, tuition coverage, and possible international travel allowances. Awards are made based on the candidates' intellectual merit and potential for research achievement. More information and applications for the 2003 competition will be available early in August 2002 at <http://www.orau.org/nsf/nsffe1.htm>. Further information may be obtained by calling toll-free 866-353-0905 or by sending e-mail to nsfgrfp@orau.gov. The deadline is **November 7, 2002**.

—From an NSF announcement

NSF International Research Fellow Awards

The International Research Fellow Awards Program of the National Science Foundation (NSF) provides support for postdoctoral and junior investigators to do research in basic science and engineering for 3–24 months in any country in the world. The goal of the program is to establish productive, long-term relationships between U.S. and foreign science and engineering communities. Applicants must be U.S. citizens or permanent residents who have earned their doctoral degrees within six years before the date of application or who expect to receive their degrees by the date of the award.

The deadline for applying is **November 1, 2002**. For further information contact the program officer, Susan Parris, 703-292-8711, sparris@nsf.gov; or visit the website <http://www.nsf.gov/sbe/int/fellows/start.htm>.

—From an NSF announcement

NSA Grant and Sabbatical Programs

The Mathematical Sciences Program of the National Security Agency (NSA) provides grants and sabbatical opportunities to support research by academic mathematical scientists.

The NSA makes grants to universities and nonprofit institutions to support self-directed research in the following areas of mathematics (including possible computational aspects): algebra, number theory, discrete

mathematics, probability, statistics, and cryptology. The NSA also accepts proposals for small grants for conferences, workshops, and special academic endeavors. Research grants are designed principally to provide summer salaries for professors and limited support for their graduate students. The deadline for submission of all grant proposals is **October 15, 2002**. Grants begin in the fall of the following year.

The sabbatical opportunities offered by the NSA provide support for academic mathematical scientists to visit the NSA for periods ranging from 9 to 24 months. Visitors' sabbatical stipends will be supplemented with funds to equal their regular monthly salaries. A choice is offered between an allowance for moving expenses or a housing supplement. Applicants and their immediate family members must be U.S. citizens. Because a complete background investigation is required, applications should be submitted well in advance of the requested starting date.

Further information may be obtained from the NSA's website: <http://www.nsa.gov/programs/msp/>. The telephone number is 301-688-0400, the e-mail address is msp@math.umbc.edu, and the postal address is: Mathematical Sciences Program, National Security Agency, ATTN:R51A, Suite 6557, Ft. George G. Meade, MD 20755-6557.

—From an NSA announcement

BMS Chairs Colloquium 2002

Department heads from the mathematical sciences are invited to attend the National Research Council's 17th annual Chairs Colloquium on November 8–9, 2002. The colloquium will be held at the National Academy of Sciences in Washington, DC. As in past years, this meeting provides an opportunity for chairs of college and university mathematics and statistics departments to share experiences and ideas for addressing challenges and to learn more about federal programs and policies that affect their departments.

Raymond Orbach, head of the Department of Energy's Office of Science and a key player in federal science policy, will give the keynote address on the afternoon of November 8. The remainder of the meeting includes a mix of plenary and break-out sessions aimed at sharing insights on a variety of topics, including: views from various departments; how to develop new programs, such as in bioinformatics, financial mathematics, etc.; increasing the number of undergraduate majors; understanding the dean's viewpoint; learning from the experiences of women faculty members; issues for small colleges; opportunities for mathematical sciences research in support of homeland security; programs in mathematics education; and the Carnegie Foundation for the Advancement of Teaching's study of the doctorate degree.

As is traditional, there will also be a panel discussion of grant opportunities from federal agencies and foundations, and program officers from those organizations have been asked to attend at least a full afternoon of the colloquium

to enable more off-line conversations. This year's colloquium will begin midday on Friday, November 8, and continue until late afternoon on Saturday, November 9.

The program committee is chaired by F. R. McMorris of the Illinois Institute of Technology. Its other members are Marc Lipman, Indiana University-Purdue University at Fort Wayne; Douglas Ravenel, University of Rochester; and Peter Wong, Bates College.

A brochure with registration form is being mailed in August to each four-year U.S. mathematics and statistics department. The agenda and a registration form (which must be mailed in) are available online at <http://www.nas.edu/bms/>. The registration fee for the colloquium is \$185. For further information contact the Board on Mathematical Sciences at 202-334-2421 or at bms@nas.edu.

—BMS announcement

COBASE Collaborative Grants

With funding from the National Science Foundation (NSF), the Office for Central Europe and Eurasia of the National Research Council, the operating arm of the National Academies, offers grants to individual American specialists who plan to establish new research partnerships with their colleagues from Central/Eastern Europe (CEE) and the Newly Independent States (NIS). This program is designed primarily to prepare these new partnerships for competition in NSF programs. The Collaboration in Basic Science and Engineering (COBASE) program accepts proposals for collaborative research in all fields of basic science supported by NSF. Mathematics is one of the fields in which applications will be given special priority.

Project Development and Initiation Grants support American specialists who wish to host and/or visit their CEE or NIS colleagues in order to initiate research projects and prepare collaborative research proposals for submission to NSF. U.S. applicants may now request support for up to two visits in either or both directions (i.e., either traveling to CEE/NIS or hosting a colleague from the region here in the U.S.), with the total combined duration of the visit(s) not to exceed eight weeks. Each individual visit proposed must be at least two weeks (10–14 days) in length. Grants will be in the range of \$2,500 to \$10,000. Participating countries: Armenia, Azerbaijan, Bosnia (hosting in U.S. only), Bulgaria, Croatia, Czech Republic, Estonia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, (Former Yugoslav Republic of) Macedonia, Moldova, Poland, Romania, Russia (see website for updated list of ineligible partner institutions), Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. Eligibility: All applicants must: (1) be U.S. citizens or permanent residents, (2) be affiliated with U.S. universities or other nonprofit research institutions, and (3) possess Ph.D. degrees or equivalent research experience. Foreign counterparts involved must possess CEE/NIS citizenship, be permanently employed at CEE/NIS institutions, and hold Ph.D. (kandidat) degrees or research training and experience equivalent to a doctoral degree. Employees of private

companies and the U.S. government generally are not supported under the COBASE program. Each set of partners may receive no more than one COBASE grant, and each individual may be involved in no more than two grants in a four-year period. Generally, those who hold a current NSF grant and are eligible for an NSF international supplement should not apply to this program. NSF's Central and Eastern Europe Program staff (telephone 703-292-8703) can advise regarding applications for NSF international supplements. *However, for projects in the three special topical areas (including mathematics), applicants with current NSF support are eligible to apply.*

Special Opportunities for Junior Investigators: American applicants who have received their doctoral degrees within the past ten years will receive special consideration. The COBASE program allocates at least 25 percent of its grants to researchers in this category in order to encourage beginning investigators to become involved in international collaboration.

Collaborative proposals involving any field of mathematics are welcome, including, but not limited to: algebra and number theory, analysis, computational mathematics, geometric analysis, statistics and probability, and topology and foundations. Projects in applied mathematics involving collaborations with specialists from other fields such as the biological, computer, and environmental sciences are also encouraged. Collaborative research proposals involving the modeling of complexity are particularly welcome.

The postmarking deadline for proposals is **August 27, 2002**. For application forms and instructions, visit the website <http://www.nationalacademies.org/oia/>. For more information telephone 202-334-2644, send a fax to 202-334-2614, or send e-mail to oce@nas.edu.

—From an NAS announcement

AWM Travel Grants for Women

The National Science Foundation (NSF) and the Association for Women in Mathematics (AWM) sponsor two travel grant programs for women mathematicians.

AWM Travel Grants enable women to attend research conferences in their fields, thereby providing scholars valuable opportunities to advance their research activities and their visibility in the research community. A travel grant provides full or partial support for travel and subsistence for a meeting or conference in the grantee's field of specialization.

AWM Mentoring Travel Grants are designed to help junior women develop long-term working and mentoring relationships with senior mathematicians. A mentoring travel grant funds travel, subsistence, and other expenses for an untenured woman mathematician to travel to an institute or a department to do research with a specified individual for one month.

The final deadline for the Travel Grants program for 2002 is **October 1, 2002**; the deadlines for 2003 are **February 1,**

2003; **May 1, 2003**; and **October 1, 2003**. For the Mentoring Travel Grants program the deadline is **February 1, 2003**. For further information and details on applying, see the AWM website, <http://www.awm-math.org/travelgrants.html>; or telephone 301-405-7892; or send e-mail to awm@math.umd.edu. The postal address is: Association for Women in Mathematics, 4114 Computer and Space Sciences Building, University of Maryland, College Park, MD 20742-2461.

—From an AWM announcement

Call for Submissions for Sunyer i Balaguer Prize

Ferran Sunyer i Balaguer (1912–1967) was a self-taught Catalan mathematician who, despite a serious physical disability, was very active in research in classical analysis, an area in which he acquired international recognition. Each year, in honor of the memory of Ferran Sunyer i Balaguer, the Institut d'Estudis Catalans awards an international research prize bearing his name.

The prize is awarded for a mathematical monograph of an expository nature presenting the latest developments in an active area of research in mathematics in which the author has made important contributions. The monograph should be written in English and should be at least 150 pages.

The prize, amounting to 10,000 euros (about US\$9,900), is provided by the Ferran Sunyer i Balaguer Foundation. The winning monograph will be published in Birkhäuser-Verlag's series Progress in Mathematics, subject to the usual regulations concerning copyright and author's rights.

Submissions should be sent before **December 1, 2002**, to: Centre de Recerca Matemàtica, Fundació Ferran Sunyer i Balaguer, Apartat 50, E-08193 Bellaterra, Spain. For further information visit the website <http://www.crm.es/info/ffsb.htm>, or send e-mail to crm@crm.es.

—From an Institut d'Estudis Catalans 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 included in proposals for new or renewal NSF grants or cooperative agreements or as supplements to ongoing NSF-funded projects. 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. 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.

The deadline for full proposals for REU sites is **September 15, 2002**. 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/pubsys/ods/getpub.cfm?nsf02136>.

—From an NSF announcement