

---

# Mathematics Opportunities

## AMS-Simons Travel Grants Program

Starting February 1, 2013, the AMS will begin accepting applications for the AMS-Simons Travel Grants program, with support from the Simons Foundation. Each grant provides an early-career mathematician with US\$2,000 per year for two years to reimburse travel expenses related to research. Sixty new awards will be made in 2013.

Applications will be accepted starting February 1 through [www.mathprograms.org](http://www.mathprograms.org). The deadline for 2013 applications is **March 31, 2013**.

To apply, applicants must be located in the United States or be U.S. citizens. For complete details of eligibility and application instructions, visit: [www.ams.org/programs/travel-grants/AMS-SimonsTG](http://www.ams.org/programs/travel-grants/AMS-SimonsTG) or contact Steven Ferrucci, email: [ams-simons@ams.org](mailto:ams-simons@ams.org), telephone: 800-321-4267, ext. 4113.

—AMS announcement

## Proposal Due Dates at the DMS

The Division of Mathematical Sciences (DMS) of the National Science Foundation (NSF) has a number of programs in support of mathematical sciences research and education. Listed below are some of the programs and their proposal due dates for the year 2013. Please refer to the program announcement or contact the program director for more information.

**January 7, 2013 (full proposal):** Innovation Corps Sites Program

**January 10, 2013 (full proposal):** Algorithms for Threat Detection (ATD)

**January 24, 2013 (full proposal):** Major Research Instrumentation Program

**January 30, 2013 (full proposal):** Secure and Trustworthy Cyberspace

**January 31, 2013 (full proposal):** Expeditions in Training, Research, and Education for Mathematics and Statistics through Quantitative Explorations of Data

**February 4, 2013 (full proposal):** Research Coordination Networks

**March 15, 2013 (full proposal):** Innovation Corps Teams Program

**May 24, 2013 (full proposal):** Research Experiences for Undergraduates (REU), Antarctica Program

**June 4, 2013 (full proposal):** Mentoring through Critical Transition Points in the Mathematical Sciences (MCTP)

**June 4, 2013 (full proposal):** Research Training Groups in the Mathematical Sciences

**June 15, 2013 (full proposal):** Workforce Program in the Mathematical Sciences

**June 17, 2013 (full proposal):** Innovation Corps Teams Program

**July 1, 2013 (full proposal):** Innovation Corps Sites Program

**July 24, 2013 (full proposal):** Faculty Early Career Development (CAREER) Program

**August 20, 2013 (full proposal):** International Research Experiences for Students (IRES)

**August 28, 2013 (full proposal):** Research Experiences for Undergraduates (REU)

**September 16, 2012 (full proposal):** Innovation Corps Teams Program

**September 30, 2013 (full proposal):** Secure and Trustworthy Cyberspace

**October 1, 2013 (full proposal):** Analysis; Combinatorics; Foundations

**October 4, 2013 (letter of intent):** ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers

**October 11, 2013 (full proposal):** Algebra and Number Theory

**October 16, 2013 (full proposal):** Mathematical Sciences Postdoctoral Research Fellowships

For further information see the website [http://www.nsf.gov/funding/pgm\\_list.jsp?org=DMS&ord=date](http://www.nsf.gov/funding/pgm_list.jsp?org=DMS&ord=date). The mailing address is Division of Mathematical Sciences, National Science Foundation, Room 1025, 4201 Wilson Boulevard, Arlington, VA 22230. The telephone number is 703-292-5111.

—From the DMS website

## NSF Major Research Instrumentation Program

The National Science Foundation (NSF) Major Research Instrumentation (MRI) program seeks to increase access to shared scientific and engineering instruments for research and research training in institutions of higher education, museums, science centers, and not-for-profit organizations in the United States. This program especially seeks to improve the quality and expand the scope of research and research training in science and engineering by providing shared instrumentation that fosters the integration of research and education in research-intensive learning environments. Proposals must be for either acquisition or development of a single instrument or for equipment that, when combined, serves as an integrated research instrument (physical or virtual).

Proposals may be submitted only by institutions of higher education in the United States or its territories or possessions or by nonprofit organizations such as museums, science centers, observatories, research laboratories, professional societies, and similar organizations involved in research or educational activities. The deadline for full proposals is **January 24, 2013**. For more information see <http://www.nsf.gov/pubs/2011/nsf11503/nsf11503.htm>.

—From an NSF announcement

## NSF Algorithms for Threat Detection

The Division of Mathematical Sciences (DMS) at the National Science Foundation (NSF) has formed a partnership with the Defense Threat Reduction Agency (DTRA) to develop the next generation of mathematical and statistical algorithms for the detection of chemical agents, biological threats, and threats inferred from geospatial information. Proposals are solicited from the mathematical sciences community in two main areas: mathematical and statistical techniques for genomics and mathematical and statistical techniques for the analysis of data from sensor systems. The deadline for full proposals is **January 10, 2013**. For more details, see <http://www.nsf.gov/pubs/2012/nsf12502/nsf12502.htm>.

—From an NSF announcement

## National Academies Research Associateship Programs

The Policy and Global Affairs Division of the National Academies is sponsoring the 2013 Postdoctoral and Senior Research Associateship Programs. The programs are meant to provide opportunities for Ph.D., Sc.D., or M.D. scientists and engineers of unusual promise and ability

to perform research at more than one hundred research laboratories throughout the United States and overseas.

Full-time associateships will be awarded for research in the fields of mathematics, chemistry, earth and atmospheric sciences, engineering, applied sciences, life sciences, space sciences, and physics. Most of the laboratories are open to both U.S. and non-U.S. nationals and to both recent doctoral recipients and senior investigators. Amounts of stipends depend on the sponsoring laboratory. Support is also provided for allowable relocation expenses and for limited professional travel during the period of the award.

Awards will be made four times during the year, in February, May, August, and November. The deadline for application materials to be postmarked or for electronic submissions for the February 2013 review is **February 1, 2013**. Materials for the May review are due **May 1, 2013**; for the August review, **August 1, 2013**; and for the November review, **November 1, 2013**. Note that not all sponsors participate in all four reviews. Applicants should refer to the specific information for the laboratory to which they are applying.

For further information and application materials, see the National Academies website at [http://sites.nationalacademies.org/PGA/RAP/PGA\\_050491](http://sites.nationalacademies.org/PGA/RAP/PGA_050491) or contact Research Associateship Programs, National Research Council, Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; email [rap@nas.edu](mailto:rap@nas.edu).

—From an NRC announcement

## CAIMS/PIMS Early Career Award

The Canadian Applied and Industrial Mathematics Society (CAIMS) and the Pacific Institute for Mathematical Sciences (PIMS) sponsor the Early Career Award in Applied Mathematics to recognize exceptional research in any branch of applied mathematics, interpreted broadly. The nominee's research should have been conducted primarily in Canada or in affiliation with a Canadian university. The prize is to be awarded every year to a researcher less than ten years past the date of Ph.D. at the time of nomination.

The award consists of a cash prize of C\$1,000 and a commemorative plaque presented at the CAIMS Annual Meeting. The recipient will be invited to deliver a plenary lecture at the CAIMS annual meeting in the year of the award. A travel allowance will be provided. The deadline for nominations is **January 31, 2013**. For more information see <http://www.pims.math.ca/pims-glance/prizes-awards>.

—From a PIMS announcement

## News from the CRM

The Centre de Recerca Matemàtica (CRM) in Barcelona, Spain, announces several activities for the spring of 2013.

### *Research Programs*

**The Mathematics of Planet Earth: through May 2013.** See [www.crm.cat/2012/RPMPE2013](http://www.crm.cat/2012/RPMPE2013)

**Conformal Geometry and Geometric PDEs: May–July 2013.** See [www.crm.cat/2013/RPConformalGeometry](http://www.crm.cat/2013/RPConformalGeometry)

### *Conferences*

**New Trends in Regular Theory and Methods for Geomathematical Problems: May 6–10, 2013.** See [www.crm.cat/2013/CGeomathicalProblems](http://www.crm.cat/2013/CGeomathicalProblems)

**Geometrical Analysis: July 1–5, 2013.** See [www.crm.cat/2013/CGeometricalAnalysis](http://www.crm.cat/2013/CGeometricalAnalysis)

### *Advanced Courses*

**Imperial College–CRM International School and Research Workshop on Complex Systems: April 8–13, 2013.** See [www.crm.cat/2013/ACComplexSystems](http://www.crm.cat/2013/ACComplexSystems)

**Compactifying Moduli Spaces: May 27–June 1, 2013.** See [www.crm.cat/2013/ACCompactifying](http://www.crm.cat/2013/ACCompactifying)

**FESS 2013: June 18–21, 2013.** See [www.crm.cat/FESS2013](http://www.crm.cat/FESS2013)

**Topics in Conformal Geometry and Geometry Analysis: June 25–28, 2013.** See [www.crm.cat/2013/ACConformalGeometry](http://www.crm.cat/2013/ACConformalGeometry)

### *Workshop*

**Slow-Fast Dynamics: Theory, Numerics, Application to Life and Earth Sciences: June 3–7, 2013.** See [www.crm.cat/2013/WKEarthSciences](http://www.crm.cat/2013/WKEarthSciences)

—From a CRM announcement

---

# For Your Information

## News from PIMS

Alejandro Adem has been appointed to a second five-year term as director of the Pacific Institute for the Mathematical Sciences (PIMS), beginning July 1, 2013.

Adem is a professor of mathematics at the University of British Columbia and holds the Canada Research Chair in Algebraic Topology. His mathematical interests span a variety of topics in algebraic topology, group cohomology, and related areas. He has published more than sixty research articles, as well as two books, and has delivered more than two hundred fifty invited talks throughout the world. In 1992 he received the U.S. National Science Foundation Young Investigator Award. He has held visiting positions at the Institute for Advanced Study in Princeton, the ETH-Zurich, the Max Planck Institute in Bonn, the University of Paris VII and XIII, and Princeton University.

Adem has a wealth of international scientific and administrative experience. He has served as chair of the Department of Mathematics at the University of Wisconsin-

Madison and as cochair of the Scientific Advisory Committee for the Mathematical Sciences Research Institute in Berkeley. He sits on the board of directors for the Atlantic Association for Research in the Mathematical Sciences and the Banff International Research Station, as well as on the AMS Council. He has served on the steering committees for the Long-Range Plan for the Mathematical and Statistical Sciences in Canada, for the 2011 ICIAM Conference, and for the 2013 Mathematical Congress of the Americas. He played a leading role in organizing the first joint meetings between the Canadian and Mexican Mathematical Societies and has been instrumental in the development of the Pacific Rim Mathematical Association (PRIMA). He has also fostered academic connections between Canada and France by serving as director of the Unité Mixte Internationale, established at PIMS in 2007 through the sponsorship of the Centre National de la Recherche Scientifique.

— From a PIMS news release