Opportunities for Mathematics Students

Scholarships

All Students

SMART Scholarships:
- Includes full tuition, a $25,000-$40,000 stipend, book allowance, and summer internship, and then provides guaranteed employment with the Defense Department upon graduation.
- Students must be U.S. Citizens, able to obtain a DoD Security Clearance, and be willing to work as a civilian in the DoD upon graduation.
- Deadline is in the fall. More information is available at www.asee.org/SMART

Sophomore-Junior

The Goldwater Scholarship:
- Provides $7,500 for students in a STEM major such as mathematics.
- Application includes description of activities/research, recommendations, essays, projections for future.
- Deadline for online application is the end of January. More information is available at www.act.org/goldwater

Ernest F. Hollings Undergraduate Scholarship Program:
- Provides up to $8,000 a year for up to two years and a 10-week paid ($650/week) summer internship for students in an NOAA (National Oceanic and Atmospheric Administration) mission discipline which includes mathematics.
- Applicants must be a U.S. citizen and have at least a 3.0 GPA.
- Deadline for online application is the end of January. More information is available at www.oesd.noaa.gov/Hollings_info.html

Graduate Students

National Science Foundation IGERT Grant:
- A program to promote interdisciplinary studies in STEM fields such as mathematics at specific institutions throughout the U.S.
- Applicants must be U.S. citizens or permanent residents.
- The grant includes up to $30,000 a year plus tuition and fees.
- Deadlines depend upon the specific institution. More information is available at www.igert.org

Hertz Fellowship:
- A merit-based award for students studying in the applied sciences and mathematics.
- Applicants must be U.S. citizens or permanent residents. Winners are awarded $31,000/year plus tuition for 5 years.
- Applications are due in November. More information is available at www.hertzfoundation.org

National Science Foundation Graduate Research Fellowship:
- A program designed to promote graduate studies in STEM fields such as mathematics among U.S. citizens or permanent residents.
- Recipients are expected to excel in academic research, teaching and publishing.
- The grant provides $30,000 stipend and $10,500 cost-of-education allowance a year for three years.
- Deadline is Fall. More information is available at www.nsfgradfellows.org

U.S. Department of Homeland Security Scholarship and Fellowship Program:
- Provides $27,600 a year and full tuition for up to three years for beginning graduate students in a STEM major such as mathematics.
• Applicants must be a U.S. citizen and have at least a 3.3 undergraduate GPA.
• Deadline for online application is the beginning of January. More information is available at http://www.orau.gov/dhsteducationprograms

Department of Energy (DOE) Office of Science (SC) Graduate Fellowship Program
• Provides a $35,000 yearly stipend for living expenses, $10,500 per year for tuition and fees and a $5,000 research stipend supplement for research materials and travel expenses.
• Applicants must be a U.S. citizen and have at least a 3.3 undergraduate GPA.
• Deadline for online application is November 30. More information is available at http://www.scied.science.doe.gov/SCGF.html

Academic Year Programs

Sophomore-Junior-Senior

Budapest Semester in Math:
• A 15 week mathematics study abroad program in Budapest, Hungary.
• Students take mathematics classes taught in English.
• Deadlines are Apr 30 for fall semester and Nov 1 for spring semester. More information is available at www.stolaf.edu/depts/math-old/budapest

Math in Moscow:
• A 15 week mathematics study abroad program in Moscow, Russia.
• Students take mathematics classes taught in English.
• Deadlines are Mar 30 for fall semester and Sep 30 for spring semester. More information is available at www.mccme.ru/mathinmoscow

Junior Year for Women at Smith College:
• A program for women in the junior year to attend Smith College to get intensive training in mathematics while building the skills and confidence needed to succeed in graduate school in mathematics.
• Preferred deadlines are Mar 15 for fall semester and Oct 15 for spring semester, but late applications are accepted. For more info go to http://math.smith.edu/center

Penn State’s MASS (Mathematics Advanced Study Semesters) Program:
• Provides a fall semester experience at Penn State with advanced mathematics courses and beginning research.
• Applications are accepted until the program is filled. For more info go to www.math.psu.edu/mass/

Graduate Students

MathMods - Mathematical Modelling in Engineering: Theory, Numerics, Applications:
• A two year international Master’s Program in Europe (L’Aquila (Italy), Nice (France), Barcelona (Catalonia/Spain), Hamburg (Germany), and Gdansk (Poland)).
• Students may receive grants for 42,000 euro for the two years
• Application deadline is Jan 31. More information is available at www.mathmods.eu

Summer Programs

Undergraduates

Park City Math Institute Summer Program for Undergraduates:
A 3-week summer program where undergraduate students have the opportunity to learn about an advanced mathematical topic and work on an individualized topic.

The application deadline is Jan. For more info go to http://pcmi.ias.edu/

**Freshman-Sophomore**

**Carleton Summer Mathematics Program for Women:**
- A 4-week summer program that encourages and supports women in their study of mathematics.
- Applicants must be female students who are currently completing their first or second year of college and must be U.S. citizens.
- Participants receive a $1600 stipend, room and board, and a travel allowance.
- The application deadline is the end of February. For more info go to www.carleton.edu/smp

**Texas A&M Summer Math Pre-REU:**
- A 5-week summer program where undergraduate students have the opportunity to learn about an advanced mathematical topic and work on an individualized topic.
- Participants receive a stipend, room and board, and a travel allowance.
- For more info go to http://www.math.tamu.edu/undergraduate/research/MCTP/

**Sophomore-Junior**

**NSF Summer REU’s (Research Experience for Undergraduates):**
- An 8-week summer program to learn more about mathematics and to work on a research problem in mathematics at various universities throughout the U.S.
- Support typical includes $2750-$3250 stipend, free housing, and a travel allowance.
- Applicants must be U.S. citizens or permanent residents.
- Deadlines vary but are typically in Feb or Mar. For a listing of current math REU’s go to www.ams.org/employment/reu.html
- Also, some Math Institutes have REU programs, such as NIMBioS. www.nimbios.org

**NIH sponsored Summer Institutes for Training in Biostatistics:**
- Offers a 6-week summer program to learn more about applying statistics in the medical field.
- All expenses are covered and college credit may be earned.
- There are programs at Boston Univ. (http://sph.bu.edu/index.php?option=com_content&task=view&id=47&Itemid=75), North Carolina State Univ. (www.stat.ncsu.edu/sibs/), and Univ. of Wisconsin (www.biostat.wisc.edu/Educational_Resources/SIBS/index.htm). Deadlines vary.

**The Mathematical and Theoretical Biology Institute Summer Program:**
- An 8-week summer program specializing in mathematics and biology.
- Support includes $3000 stipend, room and board, and a travel allowance.
- Deadline is Mar 1. For more info go to http://mtbi.asu.edu/SummerProgram.html

**Junior**

**Summer Program for Women in Mathematics:**
- A 5-week summer program for women who have completed their junior year and may be contemplating graduate school in mathematics.
- Participants receive a $1750 stipend, room and board, and a travel allowance.
- The application deadline is the end of February. For more info go to www.gwu.edu/~spwm

**Internships and Co-Op Opportunities:**
- A list of opportunities for mathematics internships and co-ops (including summer programs) is available at www.ams.org/employment/internships.html
Texas A&M Summer Math Bridge Program for Juniors:
- A 5-week summer program where undergraduate students have the opportunity to learn about an advanced mathematical topic and work on an individualized topic.
- Participants receive a stipend, room and board, and a travel allowance.
- For more info go to http://www.math.tamu.edu/undergraduate/research/MCTP/

Junior-Senior

NSA Director’s Summer Program (DSP):
- A 12-week paid summer program where students work on problems in mathematics, cryptology, and communications technology.
- Applicants must be U.S. citizens.
- Application deadline is Oct 15. For more info go to http://www.nsa.gov/careers/students_1.cfm

Research in Industrial Projects for Students (RIPS) Summer Program:
- A 9-week summer program where students solve applied mathematics problems from industry.
- Participants receive a $2600 stipend, housing, and a travel allowance. Foreign students are eligible to apply.
- For more info go to www.ipam.ucla.edu/programs/rips2007

Senior

University of Nebraska Summer IMMERSE program:
- A 6-week summer program to help prepare students who are about to enter graduate school in mathematics.
- Participants receive a $3000 stipend, room and board, and a travel allowance.
- Deadline is March 1. For more info go to www.math.unl.edu/programs/mctp/immerse

EDGE Summer Program for Women:
- A summer program to help women who are entering graduate school or who have completed one year of graduate studies succeed in graduate school in mathematics.
- Participants receive a $2000 stipend, room and board, and a travel allowance.
- Deadline is March 1. For more info go to www.edgeforwomen.org

Graduate Students

NSA Summer Graduate Mathematics Program:
- A 12-week paid summer program for graduate students on problems in mathematics, cryptology, and communications technology.
- Applicants must be U.S. citizens.
- Application deadline is Oct 15. For more info go to www.nsa.gov/careers/students_1.cfm?#gmp

NSF’s East Asia and Pacific Summer Institutes for U.S. Graduate Students:
- A summer program for graduate students to study a STEM field such as mathematics in an East Asian or Pacific country.
- Participants receive a $5000 stipend, room and board, and a travel allowance.
- Deadline is Nov 9. For more info go to www.nsf.gov/eapsi

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