Federal Funding Opportunities for Graduate School

2011 Sponsored Programs Enhancement
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Sponsored Programs Enhancement
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Resources for Graduate Students
Basics: General Timeline

- **Preliminary Activities**
  - Prior

- **Planning Phase**
  - 12 Months

- **Writing Phase**
  - 6 Months

- **Rewriting Phase**
  - 3 Months

- **Submitting**
  - 1 + Week
Eligibility and requirements
Application
Benefits
Federal Agencies
From Application to Award

- Applications become available mid-August
- Deadlines: late October/early November
- Awards: March-June
Application Material

1. Personal Statement Essay
2. Previous Research Experience Essay
3. Proposed Plan of Research Essay
4. Three Letters of Reference
5. Transcripts
6. GRE
Why Apply

- Other award applications
- Job applications, job security
- Writing publications
- Professional connections
Benefits

- Tuition
- Stipend - $20,000-$50,000
- Travel feeds
- Research expenses
- Internships
- International experience
- Job opportunities and security
- PRESTIGE and an impressive vita
Eligibility

- Senior- Finishing Post-doc
- Citizen, permanent resident
- STEM field
Requirements

- GPA 3.5 or above
- Conference presentations, submissions, poster sessions, publications
- An adviser that is committed to seeing you succeed
- Research experience
- Community/k-12 outreach
Above All

- Passion for science
- Ability - motivation to write
- Transformative thinker
- Innovative
- Best of the best
Federal Fellowship Programs

- National Science Foundation
- Department of Defense
- Department of Energy
- NASA
- Environmental Protection Agency
- National Institute of Health
Welcome to www.nsfgrfp.org

The National Science Foundation's Graduate Research Fellowship Program (GRFP) helps ensure the vitality of the human resource base of science and engineering in the United States and reinforces its diversity. The program recognizes and supports outstanding graduate students in NSF-supported science, technology, engineering, and mathematics disciplines who are pursuing research-based masters and doctoral degrees at accredited U.S. institutions. The NSF welcomes applications from all qualified students and strongly encourages underrepresented populations, including women, underrepresented racial and ethnic minorities, and persons with disabilities, to apply for this fellowship.

The results of the 2011 GRFP are now available.

The 2011 awardees and honorable mentions list is posted on the FastLane GRFP page. Notification e-mails have been sent to all reviewed applicants.

Rating sheets have been posted on FastLane.

If you did not receive a notification, please check your spam/junk mail folder. Please e-mail info@nsfgrfp.org for further instructions if the notification is not in your junk mail folder.

GRFP Fellows Receive the Following:

- Three years of support
- $30,000 annual stipend
- $10,500 cost-of-education allowance
- International research and professional development opportunities
- TeraGrid supercomputer access

Important Links for the GRFP

http://www.nsf.gov/grfp - Official program announcement and information, information for awarded fellows, FAQ guides, and information for coordinating officials
Supported Fields

- Chemistry
- Computer Sciences
- Engineering
- Geology
- Forestry
- Biology
- Mathematical Sciences
- Physics
- Human Factors
- Social Sciences

- Sustainability
- Advanced Power Systems
- Health Science
- Statistical Genetics
- Satellite
- Propulsion
- Rail Transportation
- Industrial
- Archeology
- Ecology
- DNA
- Astronomy
- Energy
- Nanotechnology
- Security
- Sustainable
- Environmental
- Transportation
- Cancer
- Spinal
- Molecular
- Aerospace
- Computational
- Science
- Ion
- Space
- Propulsion
- Fish
- Astrophysics
- Photonics
- Biomedical
- Wolves
- Bears
- Moose
- Biology
- Biochemistry
- Forest
- Management
- Water
- Bugs
- Atmospheric
- Biotechnology
- Volcanology
- Technologies
- Structures
- Climate Change
- Concrete
- Environmental Outreach
- Atmospheric
- Science
- Carbon Technology
- Fluid Dynamics
- Wind
- Air
- Rhizotron
- Sensing & Imaging
- Multi-scale
- Resources
- Systems
Chances?

*Data from NSF 2007-2008 application cycle*

- About 10% award success rate
- Additional 17% received honorable mention
- Number of awardees proportional to number of applications in each field
- Seniors evaluated alongside seniors, etc.
The East Asia and Pacific Summer Institutes (EAPSI)

- Research setting
- International collaboration
- Host universities/laboratories
  - Australia, China, Japan, Korea, New Zealand, Singapore, Taiwan
- 6 weeks
  - except Japan is 8 weeks
Other International Programs

- **Boren: Institute of International Education**
  - International and language component to their educations
  - Locations important to national security
- **Fulbright: US Dept of State**
  - International exchange
  - English as a Second Language
  - Research/study
- **NSF GRFP supplement**
- **EPA: Marshall Scholarships – study in UK**
SMART Scholarship
Science, Mathematics & Research for Transformation

SMART, THE PREMIER SCHOLARSHIP PROGRAM SUPPORTING THE EDUCATION OF AMERICA'S FUTURE SCIENTISTS AND ENGINEERS.

Get SMART, Get Paid, and Get Ahead
Welcome and thank you for your interest in this exciting scholarship opportunity. The Science, Mathematics And Research for Transformation (SMART) Scholarship for Service Program has been established by the Department of Defense (DoD) to support undergraduate and graduate students pursuing degrees in Science, Technology, Engineering and Mathematics (STEM) disciplines. The program aims to increase the number of civilian scientists and engineers working at DoD laboratories. Learn More

SMART Brochure (PDF, 2.6MB)
SMART Poster (PDF, 2.09MB)

SCIENCE, MATHEMATICS, AND RESEARCH FOR TRANSFORMATION (SMART)
Administered by:

NAVAL POSTGRADUATE SCHOOL
Differences between NSF and DOD

- **Service Requirement**
- Sponsoring facilities – labs
- GRE
- Highly educated civilian scientists, engineers, and mathematicians
SMART Scholars Receive:

- $25,000 - $41,000 stipend
- Full tuition and related education expenses
- Health Insurance reimbursement allowance
- Book allowance
- Summer Internships (multi-year participants)
- Post-Graduation Career Opportunities
- PAID Orientation in Washington DC -
NASA Aeronautics Scholarship

- $35,000 annual stipend
- Up to $11,000 awarded for each school year, to be used for tuition and other education related expenses
- Two (2) $10,000 Summer internship at a NASA Research Center
National Institute of Health

- Applicant
- Sponsor
- Institutes
- Training Plan
- Research Plan
- Preliminary data
Sponsor(s)

- Publication record
- Recognition
- Successful competition for research support
- Track record in training
- Research expertise.
Environmental Protection Agency

- STAR: Science to Achieve Results
- GRO: Greater Research Opportunities
- Funding delayed until May 30th
Department of Energy

- Advance science and serve society.
- Physics, chemistry, biology, mathematics, engineering, and environmental and computer sciences
- $50,500 stipend
The Department of Energy (DOE) Office of Science (SC) has established the DOE Office of Science Graduate Fellowship (DOE SCGF) program to support outstanding students in pursuit of graduate training in basic research in areas of physics, biology, chemistry, mathematics, engineering, computational sciences, and environmental sciences relevant to the Office of Science and to encourage the development of the next generation of scientific and technical talent in the U.S.

The Fellowship award provides partial tuition support, an annual stipend for living expenses, and a research stipend for full-time graduate study and thesis/dissertation research at a U.S. academic institution for three years. The DOE SCGF program is managed by the Office of Science’s Office of Workforce Development for Teachers and Scientists (WDTS) and administered by the Oak Ridge Institute for Science and Education (ORISE).

The DOE Office of Science supports the training of scientists and engineers to prepare them for careers in fields that will make significant contribution in the areas of discovery-driven science and science for national needs in energy, environment, and national security.
DOE Partner Organizations

- Internships and Scholarships
  - renewable energies such as solar and fuel cells, energy efficiency, atmospheric sciences, ecology, global carbon cycles, climatology, and more.
- Fellowships
  - DOE facilities
  - policy-making in energy efficiency and renewable energy
    - JETS: Junior Engineering Technical Society
      $5,000 scholarships for students engineering
    - Scholarship Opportunities for American Indians and Alaska Natives
COS: fundingopps.cos.com

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The most comprehensive source of funding information available on the Web, with more than 25,000 records, representing over 400,000 funding opportunities, worth over $33 billion.

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- Funding Opportunities by Sponsor

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Proposal Incentive Award Program (PIAP)

- Michigan Tech’s Graduate School
- Pays you up to $100 up to two times per year
- Work with me
- Fill out PIAP form when you submit the proposal. Funds aren’t available for proposals already submitted.
- Award added to your student account
Start now

Make proposal development a part of your graduate education experience – *especially if you receive institutional funding.*
Contact me

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