

Fellowships for Engineering Graduate Students

Drexel Fellowships Office





NSF East Asia and Pacific Summer Institutes for U.S.
Graduate Students

- Not financial aid
- Merit-based: Highly motivated and ambitious students
- International or Domestic, Undergraduate or Graduate, Summer/semester/year/multi-year
- Opportunities to Excel
 - New Ideas/Research
 - New Cultures
 - Mentoring
- Prestige
- Money

What are Fellowships?



NSF East Asia and Pacific Summer Institutes for U.S.
Graduate Students

- Introduce U.S. graduate students to East Asia and Pacific science and engineering in the context of a research setting
- Host laboratories in Australia, China, Japan, Korea, New Zealand, Singapore, or Taiwan
- Approx. 8 weeks from June to August
- Japan: approx. 10 weeks from June to August
- \$ 5,000 stipend and round-trip airfare to the host location
- **Deadline:** November 10, 2010



NSF EAPSI



NSF GRFP (Graduate Research Fellowship Program)

- Three years of financial support (\$30,000/year + educational stipend of up to \$10,500) to top students committed to research careers
- Criteria: Intellectual Merit and Broader Impacts
- Women, under-represented minorities and people with disabilities are encouraged to apply
- **Deadlines** run from November 15-22 depending on field of study



NSF GRFP

- Applicants must be U.S. Citizens or Permanent Residents
- Pursuing a research-based master's or doctoral degree
- Graduating Seniors, 1st or 2nd year graduate students
- **Application:** Personal Statement, Previous Research, Proposed Research, transcripts, 3 letters of references



Eligibility and Application

SMART

**SCIENCE, MATHEMATICS
& RESEARCH FOR
TRANSFORMATION**

**PART OF THE NATIONAL DEFENSE
EDUCATION PROGRAM**

DoD Science, Mathematics & Research for Transformation

- Funding for outstanding students in the STEM fields
- Full tuition and fees, a \$25-41,000 stipend
- Paid summer internships and mentoring
- Post-graduation employment
- Awardees are assigned to a DoD lab upon selection
- Post-graduation service requirement at a DoD lab
- **Deadline:** December 1, 2010



DOD SMART

- Must be U.S. citizens
- GPA of 3.0 or higher
- Online **Application**
 - Summary of goals
 - Research explanation
 - 2 letters of reference
 - Official transcripts
 - GRE scores

Eligibility and Application



National Defense Science and Engineering Graduate Fellowships

- Three-year fellowships to students pursuing a **doctoral degree** in, or closely related to, an area of DoD interest
 - Aeronautical and Astronautical Engineering
 - Chemical Engineering
 - Civil Engineering
 - Electrical Engineering
 - Materials Science and Engineering
 - Mechanical Engineering
 - Naval Architecture and Ocean Engineering
- Full tuition and fees, plus a stipend of about \$30,000/year
- No service requirement
- **Deadline:** December 17, 2010



NDSEG

- U.S. citizen or National
- Intend to pursue a doctoral degree
- Have completed less than two full-time years of graduate study in the discipline in which they are applying
- **Application:** GRE, transcript, 3 letters of recommendation, Summary of Goals
- Publications, Awards, Research, Leadership, Teamwork Experiences, Community work

Eligibility and Application



Department of Energy Computational Science Graduate Fellowship

- For outstanding PhD students in scientific or engineering disciplines with an emphasis in high-performance computing
- Solve complex science and engineering problems
- Limited to four years and must be renewed each year
- Full tuition and a stipend of \$36,000/year
- 12-week practicum at a participating DoE research lab before the end of the second year of the fellowship
- Program of study (POS) that will provide a solid background in three areas:
 - (1) a scientific or engineering discipline
 - (2) computer science and
 - (3) applied mathematics



DoE CSGF

- U.S. citizens or Permanent Residents
- 1st or 2nd year of graduate study
- PhD in the physical, engineering, computer, or mathematical sciences
- No more than one term of teaching, grading or other departmental support activities
- **Application:** GRE, transcripts, 3 letters of reference, three short research essays
- **Deadline:** January 11, 2011

Eligibility and Application



U.S. DEPARTMENT OF
ENERGY

Office of
Science

DoE Office of Science Graduate Fellowship

- For outstanding students in the areas of physics, biology, chemistry, mathematics, engineering, computational sciences, and environmental sciences
- Up to **\$10,500** in tuition support, an annual stipend of **\$35,000**, and a research stipend of \$5,000/year for full-time graduate study and thesis/dissertation research
- Award period: three years
- **Deadline:** usually in late November



DoE SCFG

- First or second-year graduate students in a research-focused Master's or Ph.D. program
- Students pursuing a Master's degree must plan to pursue a Ph.D. in a qualified graduate program immediately following the completion of their Master's degree.
- GPA of 3.30 or higher
- **Application:** Research proposal, career goals, transcripts, 3 letters of recommendations

Eligibility and Application



UNCF

A mind is a terrible
thing to waste®

UNCF MERCK SCIENCE INITIATIVE

UNCF-Merck Graduate Fellowships

- Award for African-Americans graduate students in life or physical sciences (bio-engineering, tissue engineering)
- Up to \$53,500 to help cover tuition, stipend, and expenses
- Award period: 1-2 years
- U.S. citizens or Permanent Residents
- Engaged in and within 1-3 years of completing dissertation research having successfully completed all qualifying exams
- **Deadline:** December 1, 2010



UNCF-Merck



EPA Science To Achieve Results (STAR) Fellowships For Graduate
Environmental Study

- Supports master's and doctoral candidates in environmental studies
- Environmental research in engineering
- Up to **\$42,000/year** to help cover tuition, stipend, and expenses
- Master's level students: max 2 years
- Doctoral students: max 3 years (sometimes 4)
- U.S. citizens or Permanent Residents
- **Deadline:** November 5, 2010

EPA STAR





Boren Awards

- Provide funding for graduate students to study in areas critical to national security
- Emphasize learning less commonly taught languages
- Require 1 year of federal government service (DoD, DoS, DHS, Intelligence community)
- Students design their own programs that must be connected to U.S. national security (broadly defined)
- Award amount varies
- **Campus Deadline:** Feb 1, 2011



Boren Fellowships



Fulbright Scholarship

- Administered by Dept. of State
- Scholarships in over 140 countries
- Open to recent B.S./B.A. graduates, master's and doctoral candidates
- Most grantees plan their own research or study programs
- Language requirements vary

Deadline: Sept/Oct 2011

Fulbright Scholarships

- Initial information and advice
- Preparing your strongest application
 - Essay-writing advice and feedback
- Campus processes
 - Consulting with faculty letter writers
 - Setting up campus nominating committees/interviews as necessary
- Getting completed applications out on time

How the Fellowships Office Helps

- Start early
- Look for a good fit, then be yourself.
- Top grades plus
 - Get involved, be proactive
- Get to know faculty
 - Get outside input/readers in the discipline
 - Detail-rich recommendation letters

How Students Win

Contact

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www.drexel.edu/fellowships

 Drexel Fellowships Office

