The NSF Graduate Research Fellowship Program

nsf.gov/grfp
www.nsfgrfp.org
GRFP Overview

- Initiated 1952
- 46,500 Fellows to date
- 30 Nobel Laureates & 440 National Academy of Sciences members
- 4,600 Active Fellows in 200 institutions
- Higher Ph.D. completion rates
- Enhanced diversity
To increase the Nation’s human capacity in science and engineering by providing fellowships for early-career graduate students who pursue research-based master’s and doctoral degrees in NSF-supported disciplines.

To support the development of a diverse and globally engaged US science and engineering workforce.
GRFP Eligibility: self-certified

- U.S. citizens and permanent residents
- Early-career graduate students
- Pursuing research-based MS and PhD
- NSF supported fields
- Enrolled in accredited institution in US

Academic Levels of Eligible Applicants
- 1: Seniors/baccalaureates; no graduate study
- 2: First-year graduate students
- 3: Second-year grad students
  - ≤ 12 months of graduate study by August
- 4: >12 months graduate study
  - Interruption in graduate study of 2+ years

Academic levels evaluated together
GRFP Key Elements

Five Year Award – $121,500

- Three years of support
  - $30,000 Stipend per year
  - $10,500 Educational allowance to institution

- International research opportunities – expanded

- Supercomputer access
  - Winners
  - Honorable Mentions
Flexible: choice of project, advisor & program
Unrestrictive: No service requirement
Portable: Any accredited institution
  ◦ MS → PhD

2010 and 2011: 2,000 Fellowships
  ◦ 12,000 Applications – ~17% success rate
2012: 2,000 Fellowships
NSF–Supported Disciplines

- Chemistry
- Computer & Information Science/Engineering
- Engineering
- Geosciences
- Life Sciences
- Mathematical Sciences
- Physics and Astronomy
- Psychology
- Social Sciences
<table>
<thead>
<tr>
<th>Field Group</th>
<th>Awards</th>
<th>Honorable Mention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>169</td>
<td>141</td>
</tr>
<tr>
<td>Computer Sciences</td>
<td>120</td>
<td>113</td>
</tr>
<tr>
<td>Geo Sciences</td>
<td>78</td>
<td>85</td>
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<tr>
<td>Life Sciences</td>
<td>615</td>
<td>575</td>
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<tr>
<td>Math Sciences</td>
<td>86</td>
<td>71</td>
</tr>
<tr>
<td>Physics &amp; Astro</td>
<td>104</td>
<td>91</td>
</tr>
<tr>
<td>Psychology</td>
<td>136</td>
<td>135</td>
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<tr>
<td>Social Sciences</td>
<td>192</td>
<td>198</td>
</tr>
<tr>
<td>Learning Res in STEM Fields</td>
<td>23</td>
<td>8</td>
</tr>
</tbody>
</table>
### Some recent changes in field designations

**MATERIALS RESEARCH** (reorganized from other fields)
- Biomaterials,
- Chemistry of materials
- Materials theory
- Photonic materials
- Polymers
- Ceramics
- Electronic materials
- Metallic materials
- Physics of materials
- Other (Specify)

**MATHEMATICAL SCIENCES**
- Mathematical Bio (added)
- Genomics

**STEM EDUCATION AND LEARNING RESEARCH** (new)
- Engineering Education
- Science Education
- Other (specify)
- Mathematics Education
- Technology Education
NSF FastLane

- Personal statement (2 pages)
- Previous research experience (2 pages)
- Proposed plan of research (2 pages)
- Three letters of reference
- Transcripts (uploaded electronically)
<table>
<thead>
<tr>
<th>BA / BS Institution</th>
<th>Awarded</th>
<th>Honorable Mention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albion</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Alma</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Calvin</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Hillsdale</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Hope</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Michigan State</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>U of Michigan</td>
<td>25</td>
<td>26</td>
</tr>
<tr>
<td>Wayne State</td>
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<td>2</td>
</tr>
<tr>
<td>Institution</td>
<td>#</td>
<td>Percentage</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----</td>
<td>------------</td>
</tr>
<tr>
<td>Cal Berkeley</td>
<td>166</td>
<td>8.0%</td>
</tr>
<tr>
<td>MIT</td>
<td>164</td>
<td>7.9%</td>
</tr>
<tr>
<td>Stanford</td>
<td>156</td>
<td>7.5%</td>
</tr>
<tr>
<td>Harvard</td>
<td>103</td>
<td>5.0%</td>
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<tr>
<td>U of Washington</td>
<td>81</td>
<td>3.9%</td>
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<tr>
<td>Michigan</td>
<td>60</td>
<td>2.9%</td>
</tr>
<tr>
<td>Cornell</td>
<td>59</td>
<td>2.8%</td>
</tr>
<tr>
<td>Cal San Diego</td>
<td>49</td>
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<tr>
<td>Wisconsin</td>
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<td>2.1%</td>
</tr>
<tr>
<td>Cal Davis</td>
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<td>2.0%</td>
</tr>
<tr>
<td>Columbia</td>
<td>41</td>
<td>2.0%</td>
</tr>
</tbody>
</table>

*Popular Institutional Destinations (2011) # out of 2,078 awards picking*
Destinations, continued ...

<table>
<thead>
<tr>
<th>Institution</th>
<th>Total</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>NWU</td>
<td>41</td>
<td>2.0%</td>
</tr>
<tr>
<td>UCLA</td>
<td>41</td>
<td>2.0%</td>
</tr>
<tr>
<td>Illinois</td>
<td>35</td>
<td>1.7%</td>
</tr>
<tr>
<td>Yale</td>
<td>35</td>
<td>1.7%</td>
</tr>
<tr>
<td>Duke</td>
<td>33</td>
<td>1.6%</td>
</tr>
<tr>
<td>Cal Tech</td>
<td>32</td>
<td>1.5%</td>
</tr>
<tr>
<td>Carnegie M U</td>
<td>32</td>
<td>1.5%</td>
</tr>
<tr>
<td>GA Tech</td>
<td>32</td>
<td>1.5%</td>
</tr>
<tr>
<td>Colorado</td>
<td>32</td>
<td>1.5%</td>
</tr>
<tr>
<td>Princeton</td>
<td>31</td>
<td>1.5%</td>
</tr>
<tr>
<td>Texas</td>
<td>30</td>
<td>1.4%</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>1,338</td>
<td>64.4%</td>
</tr>
<tr>
<td>Rest</td>
<td>727</td>
<td>35.0%</td>
</tr>
</tbody>
</table>

(about 175 others)
Two National Science Board–approved criteria
- Intellectual Merit
- Broader Impacts

Provide an overall rating

Panels of disciplinary experts
Demonstrated intellectual ability and other accepted requisites for scholarly scientific study, such as the ability to:

- Plan and conduct research
- Work as a member of a team as well as independently
- Interpret and communicate research
Academic performance
  ◦ Grades, curricula, etc.
Awards/honors
Communication skills
International experience
Independence/creativity
Publication/presentations
Research plan
Choice of institution
References
Research experience
Contributions that:
- Integrate research and education at all levels, infuse learning with discovery, and assure that the findings are communicated in a broad context and to a large audience
- Encourage diversity, broaden opportunities, and enable the participation of all citizens, underrepresented minorities, and persons with disabilities -- in science and research
- Enhance scientific and technical understanding
- Benefit society
Broader Impacts Assessment

- Prior accomplishments
- Future plans
- Individual experiences
- Integration of research and education
- Potential to reach diverse audiences
- Impact on society and connectivity
- Community outreach
- Leadership potential
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 master's and doctoral degrees at accredited US institutions. The NSF welcomes applications from all qualified students and strongly encourages under-represented populations, including women, under-represented 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:

Register to Receive NSF GRFP Announcements
GRFP Website: www.nsfgrfp.org

NSF GRF Solicitation and links:
http://www.nsf.gov/grfp/

Online Application, User Guides, Official Announcements:
http://www.fastlane.nsf.gov/grfp/

866-NSF-GRFP (673-4737)
info@nsfgrfp.org
Next slides are for faculty
NSF Graduate Research Fellowship Program

As an educator, you play a critical role in the promotion of the GRFP. By reviewing applications as a panelist, giving presentations at your institution, and mentoring those students wishing to apply, the support you provide is invaluable to the applicants’ success. Included in this section are all of the resources needed to get involved with the GRFP. You can download promotional materials, or register as a potential panelist or register as a guide to help students at your institution.

Want to See A Fellow’s Research Featured on This Site?

If you are in contact with a current or past fellow, please have them send an email to outreach@nsfgrfp.org that includes the following:

- Their name
- Year awarded fellowship
- Institution attending/attended
- Image depicting their research (may or may not have people)
- Caption describing image, including what the viewer is looking at and the benefits of the research. Please use language that is easily understandable to someone outside the research field.

Included in this section:

Fellow Joshua Atwood from the University of Rhode Island assists the O‘ahu Early Detection Project in seeking and removing Miconia calvescens on a hillside in Honolulu. H. M. calvescens is an invasive plant that competes with native vegetation and promotes erosion by forming shallow-rooted monocultures.
Working at NSF: How to apply for a Rotator position

  - Click on “Career Opportunities”
  - Scroll down to “Current Vacancies” and click on “Scientific and Professional”
  - Select your Directorate of Choice from the dropdown menu and open your desired position.

- Contact the relevant NSF program office

- Contact the Division of Human Resource Management

- Check [http://www.usajobs.gov](http://www.usajobs.gov)