FALL 2022 NSF VIRTUAL GRANTS CONFERENCE

Introduction and Overview
Janis Coughlin-Piester
Office Head and Chief Financial Officer, Office of Budget, Finance and Award Management
Topics Covered

• Origins of NSF
• NSF Organization
• NSF Budget in the Federal Context
• NSF Fiscal Year 2023 Budget
• Funding Trends
• Key Resources

“Ask Early, Ask Often!”
NSF Mission

Promote the progress of science

Advance the national health, prosperity and welfare

Secure the national defense
NSF in a Nutshell

- Independent Agency
- Supports basic research & education
- Uses grant mechanism
- Low overhead; highly automated
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- National Science Board
How NSF is Organized

- Biological Science
- Engineering
- Mathematical & Physical Sciences
- Computer & Information Science & Engineering
- Geosciences (including Polar Program)
- Education & Human Resources
- Social Behavioral & Economic Sciences
- Technology, Innovation, & Partnerships
- International Science & Engineering
- Integrative Activities
NSF by the Numbers

- 93% Funds research, education and related activities
- $8.8B FY 2022 Enacted
- 43,600 Proposals evaluated
- 2,000 NSF-funded institutions
- 11,300 Number of awards NSF funds each year
- 318K People NSF supported
- $1.5B STEM education
- $181M* To seed public/private partnerships
- 253 NSF-funded Nobel Prize winners

Data represents FY 2021 Actuals unless otherwise indicated.
*Corresponds to NSF investments initiated in FY 2021 and spanning multiple years.
NSF Support of Academic Basic Research in Selected Fields

NSF SUPPORT OF ACADEMIC BASIC RESEARCH IN SELECTED FIELDS
(as a percentage of total federal support)

- **Computer Science**: 78%
- **Mathematics**: 57%
- **Biology**: 66%
- **Engineering**: 44%
- **Social and Psychological Sciences**: 63%
- **Physical Sciences**: 36%
- **Environmental Sciences**: 62%
- **All Science and Engineering Fields**: 23%

Total NSF Request

NSF FY 2023 Budget Request
Total: $10.492 billion
**NSF Budget by Appropriation**  
($ in Millions)

<table>
<thead>
<tr>
<th>Appropriation</th>
<th>FY 2021 Actual</th>
<th>FY 2022 Enacted</th>
<th>FY 2023 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research &amp; Related Activities</td>
<td>$6,904</td>
<td>$7,159</td>
<td>$8,426</td>
</tr>
<tr>
<td>STEM Education (formerly EHR)</td>
<td>$969</td>
<td>$1,006</td>
<td>$1,377</td>
</tr>
<tr>
<td>Major Research Equipment &amp; Facilities Construction</td>
<td>$161</td>
<td>$249</td>
<td>$187</td>
</tr>
<tr>
<td>Agency Operations &amp; Award Management</td>
<td>$385</td>
<td>$400</td>
<td>$473</td>
</tr>
<tr>
<td>Office of Inspector General</td>
<td>$18</td>
<td>$19</td>
<td>$23</td>
</tr>
<tr>
<td>Office of the National Science Board</td>
<td>$4</td>
<td>$5</td>
<td>$5</td>
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<tr>
<td><strong>Total NSF</strong></td>
<td><strong>$8,440</strong></td>
<td><strong>$8,838</strong></td>
<td><strong>$10,492</strong></td>
</tr>
</tbody>
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“Actual” reflects the amount actually obligated during the fiscal year  
“Enacted” reflects the Congressional Appropriation  
“Request” reflects the Administration’s funding request to Congress
Congressional action on FY 2023 Appropriations

- FY 2023 started on October 1, 2022. Continuing Resolution through December 16, 2022
- Congress is working on appropriations bills that may provide substantial funding increases
  - CHIPS and Science Act signed into law on August 9th *authorizes* $81 billion to NSF for FY 2023-FY 2027.
  - See these sources for more information:
    - https://science.house.gov/chipsandscienceact
Figure 1.5. Number of NSF Competitive Proposals, New Awards and Funding Rates

Note: New awards are a subset of competitive proposals.
Over $36 billion in total award funding

Over 48,000 active awards
  • Standard and continuing grants
  • Cooperative agreements
  • Graduate research fellowships
  • Other awards

Over 3,400 Awardees
  • Universities / 4-year colleges
  • Non-profit organizations
  • Community colleges
  • For-profit organizations
  • Other awardees

NSF Oversight
  • Pre- Award Reviews
  • Program Monitoring
  • Business Assistance
  • Expenditure Reviews
  • Audit Resolution
Key Documents

- Proposal & Award Policies & Procedures Guide
- Fiscal Year 2023 Budget Request
- President’s Fiscal Year 2023 Budget
- NSF Strategic Plan for Fiscal Years 2022-2026
- Report to the NSB on Merit Review
“Ask Early, Ask Often!”

- nsf.gov/staff
- nsf.gov/staff/orglist.jsp
- https://beta.nsf.gov/careers