INTRODUCTION & OVERVIEW
Speaker

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Chief Financial Officer & Office Head
Office of Budget, Finance & Award Management
Topics Covered

• Origins of NSF
• NSF Organization
• NSF Budget in the Federal Context
• NSF Fiscal Year 2019 Budget
• Funding Trends
• Key Documents
• Questions

“Ask Early, Ask Often!”
NSF Mission & Vision

To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense...

A Nation that is the global leader in research and innovation.
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
Basic research results in general knowledge and an understanding of nature and its laws. This general knowledge provides the means of answering a large number of important practical problems.

- Vannevar Bush
NSF by the Numbers

93% funds research, education and related activities

$7.8B FY 2018 enacted

49,000 proposals evaluated

2,000 NSF-funded institutions

11,000 Awards funded

359,000 people NSF supported

Fund STEM education & workforce

Fund research in all S&E disciplines

231 NSF-funded Nobel Prize winners
NSF Support of Academic Basic Research in Selected Fields

As a Percentage of Total Federal Support

- Computer Science: 83%
- Biology: 69%
- Social and Psychological Sciences: 68%
- Mathematics: 64%
- Environmental Sciences: 63%
- Engineering: 46%
- Physical Sciences: 45%
- All Science and Engineering Fields: 27%

Note: Biology includes Biological Science and Environmental Science. Biology and Psychological Sciences exclude National Institutes of Health funding from the total amount of federal support.

Total NSF Request

NSF FY 2019 Budget Request
Total: $7.5 billion
<table>
<thead>
<tr>
<th>NSF Budget by Appropriation ($ in Millions)</th>
<th>FY 2017 Enacted</th>
<th>FY 2018 Request</th>
<th>FY 2018 Enacted</th>
<th>FY 2019 Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research &amp; Related Activities</td>
<td>$6,034</td>
<td>$5,362</td>
<td>$6,334</td>
<td>$6,151</td>
</tr>
<tr>
<td>Education &amp; Human Resources</td>
<td>$880</td>
<td>$761</td>
<td>$902</td>
<td>$873</td>
</tr>
<tr>
<td>Major Research Equipment &amp; Facilities Construction</td>
<td>$209</td>
<td>$183</td>
<td>$183</td>
<td>$95</td>
</tr>
<tr>
<td>Agency Operations &amp; Award Management</td>
<td>$330</td>
<td>$329</td>
<td>$329</td>
<td>$334</td>
</tr>
<tr>
<td>National Science Board</td>
<td>$4</td>
<td>$4</td>
<td>$4</td>
<td>$4</td>
</tr>
<tr>
<td>Office of Inspector General</td>
<td>$15</td>
<td>$15</td>
<td>$15</td>
<td>$15</td>
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<tr>
<td><strong>Total NSF</strong></td>
<td><strong>$7,472</strong></td>
<td><strong>$6,653</strong></td>
<td><strong>$7,767</strong></td>
<td><strong>$7,472</strong></td>
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</tbody>
</table>

Totals may not add due to rounding.
NSF’s Ten Big Ideas

NSF’S
10 BIG IDEAS
Research Big Ideas
Process Big Ideas
What to Watch

• Congressional action on FY 2019 Appropriations
  • Recent House CJS committee mark is $8.2 billion
Appropriations Drift - 1991 to 2018
NSF Appropriations Dates Versus Start of Federal Fiscal Year Oct. 1
NSF Competitive Awards, Declines & Funding Rates

<table>
<thead>
<tr>
<th>Year</th>
<th>Awards</th>
<th>Declines</th>
<th>Funding Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 2008</td>
<td>11,024</td>
<td>32,883</td>
<td>25%</td>
</tr>
<tr>
<td>FY 2009</td>
<td>14,641</td>
<td>30,587</td>
<td>32%</td>
</tr>
<tr>
<td>FY 2010</td>
<td>13,015</td>
<td>42,547</td>
<td>23%</td>
</tr>
<tr>
<td>FY 2011</td>
<td>11,207</td>
<td>40,370</td>
<td>22%</td>
</tr>
<tr>
<td>FY 2012</td>
<td>11,534</td>
<td>37,089</td>
<td>24%</td>
</tr>
<tr>
<td>FY 2013</td>
<td>10,844</td>
<td>37,170</td>
<td>22%</td>
</tr>
<tr>
<td>FY 2014</td>
<td>10,981</td>
<td>37,093</td>
<td>23%</td>
</tr>
<tr>
<td>FY 2015</td>
<td>12,016</td>
<td>37,619</td>
<td>24%</td>
</tr>
<tr>
<td>FY 2016</td>
<td>11,893</td>
<td>37,413</td>
<td>24%</td>
</tr>
<tr>
<td>FY 2017</td>
<td>11,456</td>
<td>37,969</td>
<td>23%</td>
</tr>
</tbody>
</table>
NSF Award Portfolio – Responsible Stewardship

Over $28 billion in total award funding

Over 41,000 active awards
• Standard and continuing grants
• Cooperative agreements
• Graduate research fellowships
• Other awards

Over 3,000 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
Conference Award Portfolio

Michigan Institutions

• 1,631 active awards totaling $938 million
• 14,572 lifetime awards totaling $4.9 billion

Conference Attendees

• 135 of 170 institution represented have 15,857 active awards totaling $9.94 billion
Key Documents

• Proposal & Award Policies & Procedures Guide

• Fiscal Year 2019 Budget Request
  https://www.nsf.gov/about/budget/fy2019/index.jsp

• NSF Strategic Plan for Fiscal Years 2018-2022
  https://www.nsf.gov/about/performance/strategic_plan.jsp

• Report to the NSB on Merit Review
  https://www.nsf.gov/nsb/publications/pubmeritreview.jsp
For More Information

Ask Early, Ask Often!

- nsf.gov/staff
- nsf.gov/staff/orglist.jsp
- nsf.gov/about/career_opps/rotators/index.jsp