

NSF International Activities Overview

David Stonner NSF Europe

National Science Foundation

Supports math, science, and engineering education and training at all levels

Promotes public understanding of science, engineering and math

Seeks to ensure a world-class science, engineering and technology workforce for the U.S.

NSF Considers Proposals for Research Support in any Field of Science

Including but not limited to:

- Atmospheric Sciences
- Biological Sciences
- Behavioral Sciences
- Chemistry
- Computer Science
- Earth Sciences
- Astronomy

- * Engineering
- Information Science
- Materials Research
- Mathematical Sciences
- Oceanography
- Physics
- Social Sciences

NSF: Special Responsibilities

- * Polar Programs
 - U.S. Antarctic Program
 - Interagency Arctic Research Policy Committee
- * Science Resources Studies
 - Data collection and analysis
 - Science and Engineering Indicators
- * International Programs

NSF Organization

- Seven Directorates (ENG, BIO, GEO, MPS, SBE, CISE, EHR), 40 Divisions, ~ 250 programs
- 1,300 Employees
 - ~ 400 Ph.D. Scientists and Engineers who are Federal Employees;

Plus 170 non-Federal Employee Rotating Scientists and Engineers

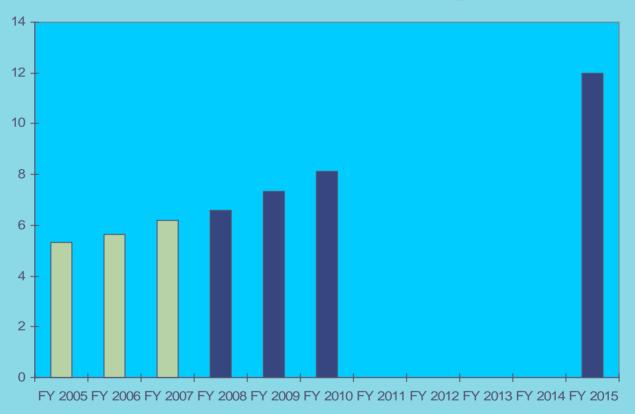
NSF by the Numbers

- 44,000 Proposals Processed Annually
- 10,300 New Awards
- Median Award is \$110,000/year for 3 years
- Funding rate 25%

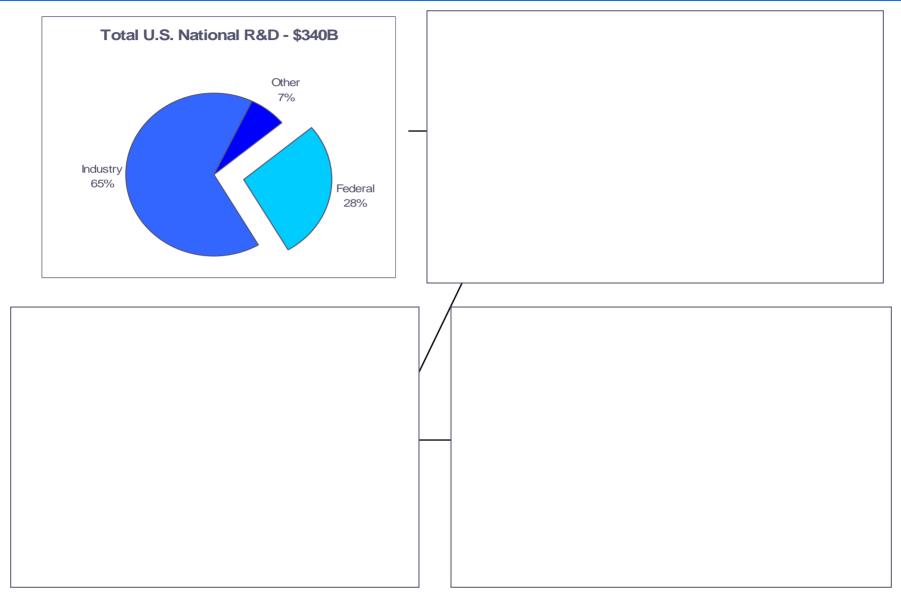
Review Process

- * Pool of 300,000 Reviewers
- * 58,000 reviewers annually (13,000 new reviewers)
- * 10 percent from outside of U.S.
- ** Approximately 6 months from proposal deadline to making award.

NSF Funding

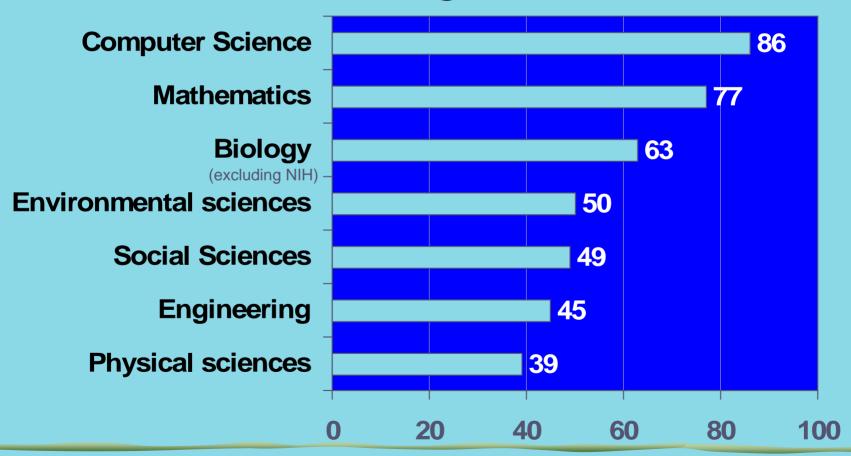


NSF Role in Research and Development



Latest complete data currently available

NSF Academic Basic Research Obligations



Percentage

NSF Approach to International

Intellectual cooperation





 Synergy from combined skills, expertise, facilities of counterparts

Involvement of students and junior researchers

International Offices

Tokyo – Japan and SE Asia

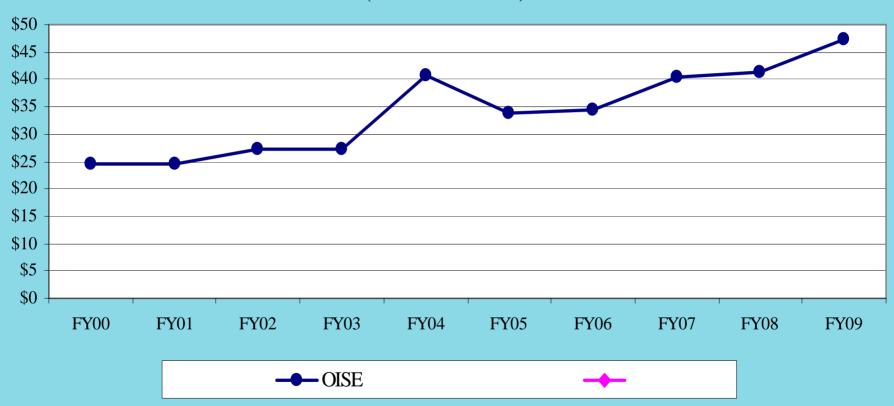
Beijing - China

Paris – Europe and Eurasia

- * Facilitate Collaboration
- *** Represent NSF**
- *** Report on Science**

OISE Subactivity Funding

(Dollars in Millions)



International Funding at NSF



Major International Activities

- * Atacama Large Millimeter Array (~\$500M)
- ★ Ice Cube Neutrino Detector (~\$242 M)
- * Large Hadron Collider (CERN) (~\$81 M)
- Integrated Ocean Drilling ProgramSODV (~\$115 M)
- International Polar Year (~\$135 M)

Accountability Challenges for International Science at NSF

- * Challenges from the political arena
 - * Mostly positive, but with reservations.
- * Challenges with calibration
 - * What is the appropriate level of analysis?
- * Challenges to the bureaucracy
 - * More effectively managing more complex arrangements.

Who is NSF accountable to?

- *** Executive Branch**
 - Office of Management and Budget
 - Inspector General
 - Office of Science and Technology Policy
- * Congress
 - * Authorizing/Appropriating/Oversight
 - Government Accountability Office
- Research Community
 - * National Science Board
 - * Professional Societies
 - Evaluation and Oversight through COV and AC
- *** General Public**
 - News Media

Development of the Federal R&D Budget

Showing Fields of Science and Executive and Legislative Decision Units Connecting lines indicate location of agency budget decisions, but not decision sequences.

