Why an NSF International Strategy Now?

Scientists and Engineers per Million People

R&D Spending (% of GDP)

Size of circle reflects the relative amount of annual R&D spending by the indicated country.
International Collaboration

Transformative science and engineering

Impacts

Drive the U.S. economy

Enhance our nation’s security

Give the U.S. the competitive edge to remain a global leader

Advance knowledge and global understanding

We leverage NSF and world resources through international collaboration
How does NSF engage internationally?

**By Investing in PEOPLE**
- To work with the best minds around the world
- To create a globally-engaged workforce
- Examples: International Research Experiences for Undergraduates, International Research Experiences for Students Program

**By Driving RESEARCH**
- To participate in cutting-edge research occurring internationally
- To ensure access to real-time events and phenomena
- Examples: Belmont Forum, Partnerships in International Research and Education Program, RAPIDs

**By Partnering on FACILITIES and INFRASTRUCTURE**
- To collaborate on the construction and use of world-class facilities and infrastructure
- Examples: Atacama Large Millimeter Array, CERN, Research Data Alliance

**By Leading Through International Forums**
- To engage with international science leaders and share norms and practices
- Examples: Global Research Council, OECD Global Science Forum, Joint Commission Meetings
### International engagement criteria

- Does the engagement:
  - Forward scientific advances?
  - Leverage NSF investments and resources?
  - Support broader science policy objectives?
  - Provide opportunities not possible if just pursued by the US alone?
  - Provide collaborative or extractive opportunities?

### Focus on transparency and accountability

- • Analytics and foresight
- • Evaluation of current programs
- • Annual report/international program database
- • External review to determine adherence to criteria

### Enhanced interface with Department of State and interagency community

- • Set high-level policy agenda through National Science/Technology Council
- • Coordinate on analytics and foresight
- • Leverage resources for overseas science agency presence
Next Steps

- Evaluation of OISE’s programmatic portfolio
- Criteria for NSF’s international collaborations
- Foresight and analysis
- Interagency relationships

So that we engage internationally in a strategic manner
Discussion

- What are some areas (specific international science fields, areas of the world) that could benefit from additional analysis and foresight?
- What would you like to see in our regular international reporting?
- How can work with developing countries be addressed through the strategy?