



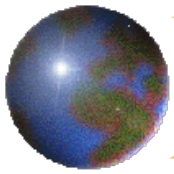
***National Science Foundation  
International Science and Engineering***

**Supporting the International Collaborations  
of U.S. Researchers**

**Graham Harrison**

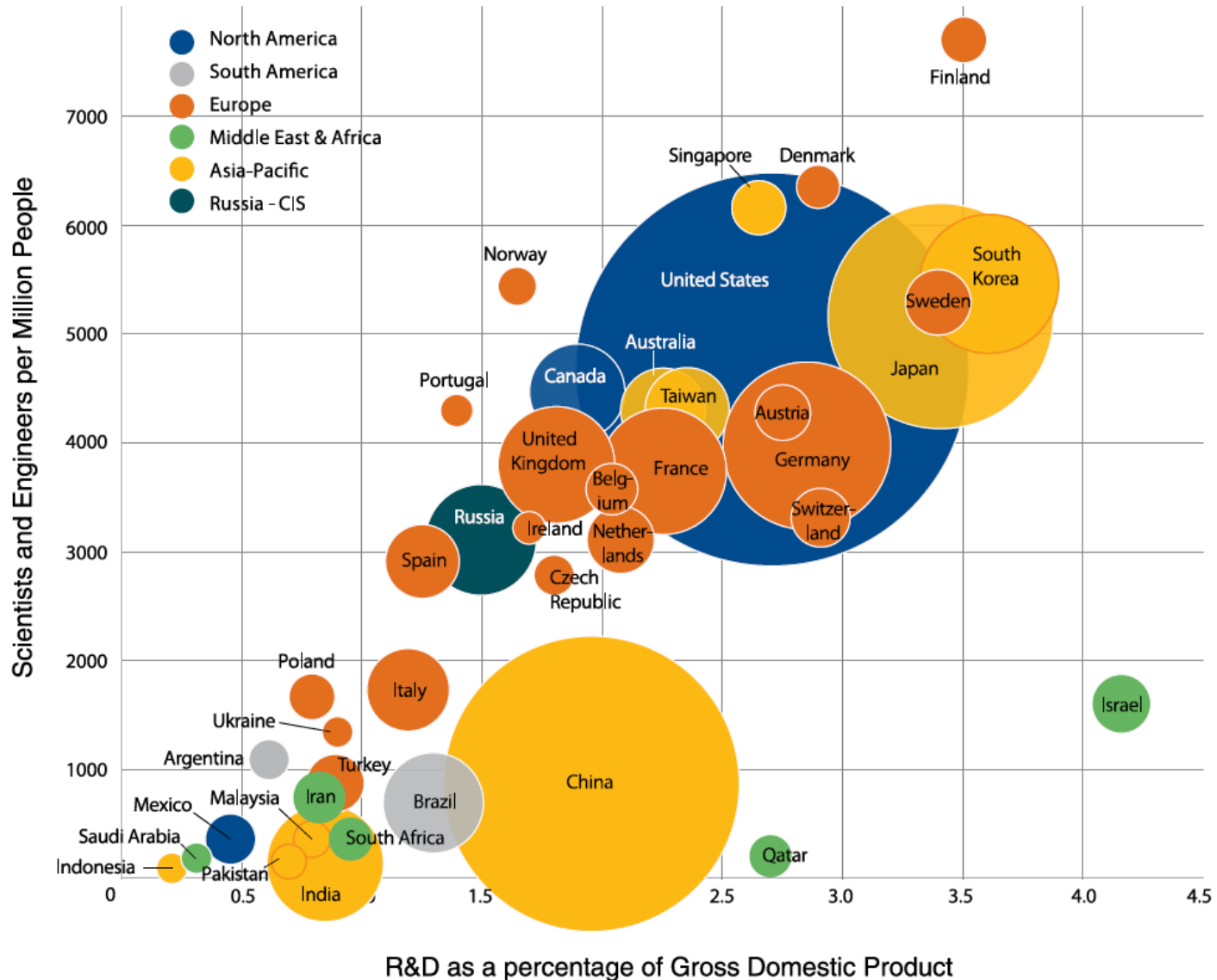
**gharriso@nsf.gov  
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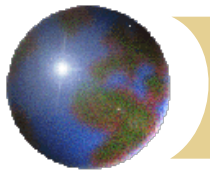


# Why International Collaboration

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

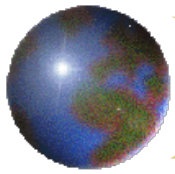


Source: Battelle, R&D Magazine, International Monetary Fund, World Bank, CIA Fact Book, OECD



# ***NSF International Engagement***

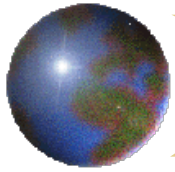
- Excellent science is happening around the world
- Researchers collaborate!
  - PI to PI level
- NSF must be **intentional** and **strategic** in enabling US scientists to partner worldwide
- Driven by **programmatic** considerations
- Opportunities for partnerships with counterpart organizations around the world
  - Linking clusters of excellence
  - Coordinated calls
  - Joint calls
- Scalability



# *Drivers for Engagement*

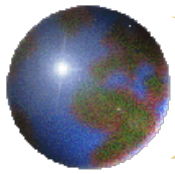


- Cultivating a globally-engaged U.S. S&E **workforce**
- Assuring access for U.S. scientists by leveraging investments through world-class **partnerships**
- Building capacity through U.S. global **leadership**



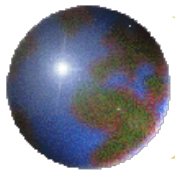
# *International Collaboration at NSF*

- Prepare a globally-engaged U.S. S&E **workforce**
- Nurture capable young researchers with strong networks overseas
- Develop global perspectives
- Facilitate mobility
  - Brain circulation



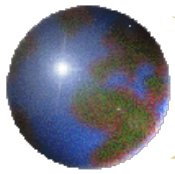
# *International Collaboration at NSF*

- Develop world-class **partnerships**
- Advance the frontiers of Science and Engineering
- Access to unique:
  - Expertise
  - Facilities
  - Phenomena
- Funding agencies are increasingly cooperating in funding collaborative international research activities
  - Leverage limited resources
  - Facilitate programmatic level collaborations
  - Mechanisms
  - Scalability
  - New and established partners



# *International Collaboration at NSF*

- ISE is the focal point for international activities at NSF
- The VAST majority of NSF funding for international collaborations come from the Research Directorates
- Almost all NSF proposals may include an international research collaboration
  - NSF supports the costs of U.S. based researchers
- Supplements to existing NSF grants
- Science across Virtual Institutes (SAVI)
  - Requires Program level support
- Dear Colleague Letters
- Topical Calls with specific partners



# *International Collaboration at NSF*

- People:
  - Dear Colleague Letters
    - NSF-ERC Implementing Arrangement for CAREER Grantees and NSF Postdoctoral Fellows
  - East Asia Pacific Summer Institutes (EAPSI)
  - Graduate Research Opportunities Worldwide (GROW)
- Partnerships:
  - PEER Science (USAID)
  - NSF cooperation with the European Commission