



Partnerships for International Research and Education (PIRE)

Webinar for Pre-Proposals Due
September 14, 2016



PIRE Webinar
July 7, 2016



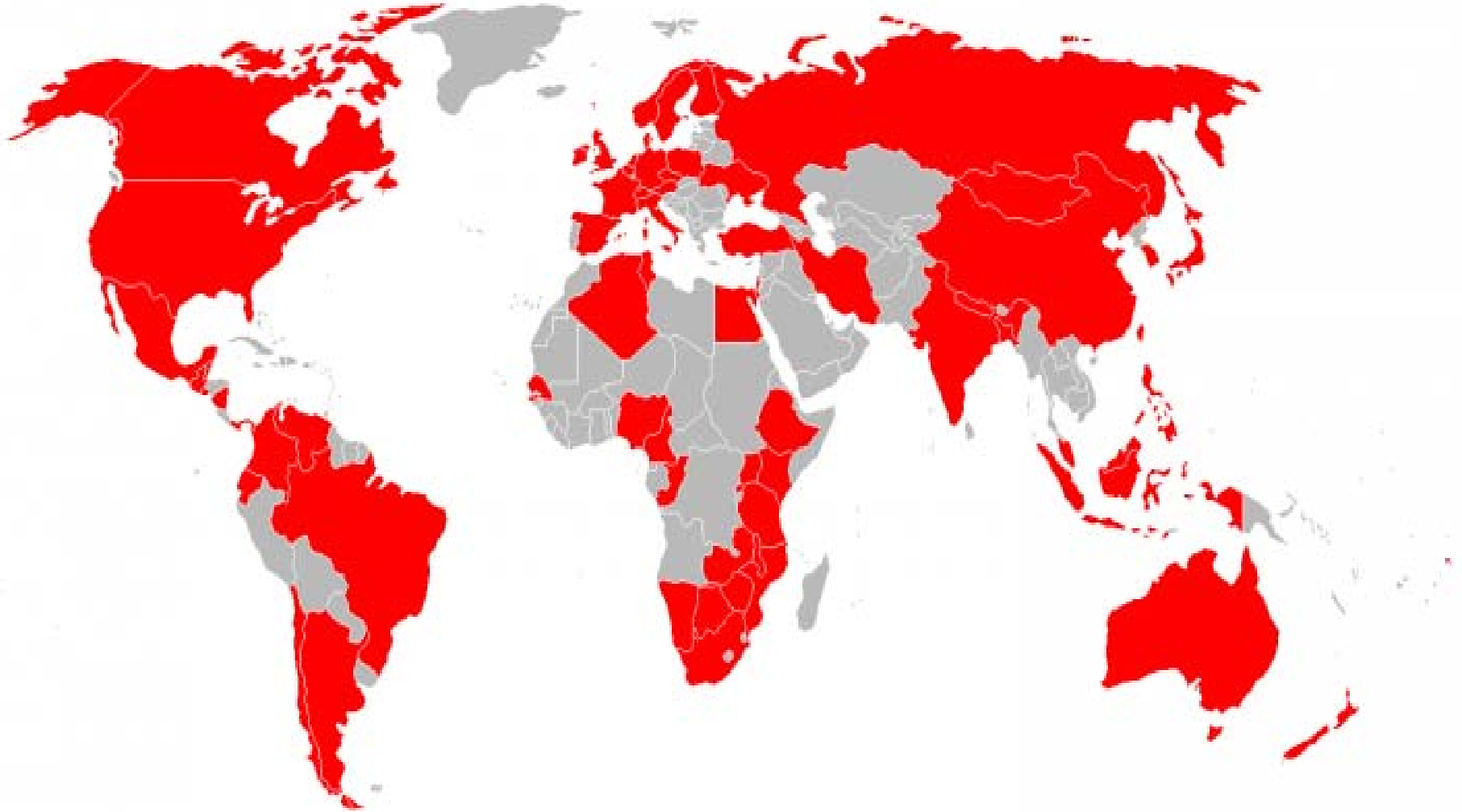
What is PIRE? – Summary



- NSF-wide program managed by the Office of International Science & Engineering (OISE) that supports international activities across all NSF supported disciplines
- Funds the US-side of large collaborative international research and education projects
 - International collaboration is essential
 - Research and education are tightly integrated
 - Led by Project PI at a US Ph.D.-granting institution
 - 5 year awards
 - Often multi-institution and multi-foreign country



PIRE Awards Map





What is PIRE? – Summary



- No budget ceiling BUT on average ~\$4M total per award
- @ 220 preliminary proposals expected
- @ 50 will be invited to submit full proposals
- 8-12 awards anticipated
- Competition cycle: PIRE 6 (awards made in 2017)



PIRE Program Objectives



- **Research Excellence**
 - Support science and engineering at the research frontier
- **International Partnerships**
 - Build partnerships with foreign counterparts
- **Students and Early Career Researchers**
 - Provide strong international research experiences and opportunities to build their personal networks
- **Institutions**
 - Engage institutional resources, catalyze change and continuing impact
- **Models**
 - Develop new models for international research and education



PIRE Pre-Proposal Requirements

(not exhaustive)



- **Project Summary (1 page maximum)**
 - Separately addresses intellectual merit and broader impacts
 - Includes why international partnership is critical to project success
- **Project Description (6 page maximum)**
 - **Administrative Summary (1 page maximum)**
 - Estimated total budget (not itemized)
 - List of partner institutions & key researchers
 - Identify “Additional Funding Opportunities”
 - **Research Summary (3 page maximum)**
 - Main ideas and essence of the research
 - Includes the synergy that each participant brings to the project
 - **Education Summary (2 page maximum)**
 - Goals of the education activities
 - Includes how integration of research and education will advance the PIRE project in a way that other funding mechanisms cannot
- **Biographical Sketches** of PI, Co-PIs and key domestic and international partners partners



PIRE Pre-Proposal Requirements

(not exhaustive)



- **Conflicts of Interest**
 - Single copy document – alphabetically ordered list of people
- **Optional Supplemental Documents**
 - Informal evidence indicating agreement to collaborate is highly encouraged
 - Partner institutions and key participants may not be changed in subsequent full proposal
- **Optional Reviewer Information – Single Copy Documents Section**
- **No other items or appendices – will be returned without review**



NSF Merit Review Criteria



Intellectual Merit – the potential to advance knowledge

- What is the potential for the proposed activity to advance knowledge and understanding within its own field or across different fields?
- To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
- Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
- How well qualified is the individual, team, or organization to conduct the proposed activities?
- Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?



NSF Merit Review Criteria



Broader Impacts – the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

- How well does the activity advance discovery & understanding while promoting teaching, training & learning?
- How well does the proposed activity broaden the participation of underrepresented groups?
- Will the results be disseminated broadly to enhance scientific & technological understanding?



NSF Merit Review Criteria



Broader Impacts – Improving Society

NSF values the advancement of scientific knowledge and activities that contribute to the achievement of societally relevant outcomes. Such outcomes include, but *are not limited to*:

- **Building STEM talent:** finding creative ways to broaden participation in science, ensuring everyone has an opportunity to succeed in all fields of science and engineering;
- **Innovating for the future:** fundamental research both expands the limits of human knowledge and uncovers insights that could save lives
- **Improving our society:** research that tackles societal challenges (adaptive technologies/bionic eyes, harnessing powerful supercomputers/to help fight HIV);
- **Reaching beyond borders:** the impacts of NSF research extend beyond the borders of an institution or country (responses to Ebola, predicting ice sheet collapse);
- **Engaging a wider audience:** science education and exploration aren't limited to the classroom or lab (rainforests of Puerto Rico, museum maker spaces, galaxy zoos)
- **Engaging citizens in research:** helps increase public understanding of science and the scientific process itself.



PIRE Program-Specific Review Criteria



Value added through International Partnership

- To what extent is the international partnership essential to the proposed project?
- How does each participating institution contribute to advancement of the PIRE project?
- Is the whole greater than the sum of its parts?

Educational Activities

- How do the proposed educational activities of the PIRE project promote educational excellence via international collaboration and development of a globally-engaged US science and engineering workforce?



PIRE Program-Specific Review Criteria



Institutional Engagement

- How clearly presented are the roles and contributions of each participating organization?
- How well defined are anticipated benefits that each of the project's partners will gain in the proposed partnership?

Project Management

- How well is the management structure described and how appropriate is that structure for effective management, coordination, logistics and oversight of the PIRE activities?
- How effective is the proposed plan likely to be in measuring project outputs and outcomes?
- How clear and appropriate are the proposed metrics and criteria for measuring project accomplishments according to a well-defined schedule?



PIRE Partner Agencies



- PIRE is working with counterpart funding agencies to lower barriers to international collaboration for U.S. scientists, engineers and students, and to encourage jointly funded, bilateral and multilateral projects.
- For PIRE 6 there are 22 formal PIRE Partnership Agencies from 19 countries, including the USAID PEER program.
- Important to remember that this list of partnerships is not restrictive



Partnerships for Enhanced Engagement in Research (PEER)



- USAID through the National Academies provides support to **foreign researchers in USAID locations**.
- US partner must have ACTIVE award from NSF (or NIH, USDA, USGS, Smithsonian, NASA, NOAA). New Solicitation is expected ~Sept. 2016.
- Only certain countries eligible
 - Depends on USAID Mission interests
 - Development impact crucial
- Variety of programs for specific topics / regions
- Managed by National Academies
nationalacademies.org/PEER





PIRE Awards by Discipline



• Engineering	– 22
• Math/Physical Sciences	– 16
• Geosciences	– 14
• Biological Sciences	– 13
• Social Sciences	– 6
• Computer Sciences	– 4
• Education/Human Resources	– 1
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	76

All Science and Engineering disciplines are represented (PIRE 2012 focused on Sustainability)



PIRE Process is Very Competitive



- 2012 PIRE
 - 179 prelim proposals → 52 invitations (29%)
 - 12 Awards (23% of invitations; 7% of prelim)

- 2015 PIRE
 - 218 prelim proposals → 63 invitations (28%)
 - 17 Awards (26% of invitations; 12% of prelim)



Recent History of PIRE Awards



- 2012 PIRE Awards
 - 12 awards -- \$3.8 - \$5.0 M (avg \$4.4 M)
 - NSF Investment of \$50 million over 5 years

- 2015 PIRE Awards
 - 17 Awards – \$3.0 - \$5.0 M (avg \$4.0 M)
 - NSF Investment of \$69 million over 5 years



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NSF-wide

Partnerships for International Research and Education (PIRE)

PIRE Program News - Update June 2016

The Program is open and currently accepting preliminary proposals.

Please see solicitation - [16-571](#)

DUE DATES

Preliminary Proposal Deadline Date: September 14, 2016

Full Proposal (By Invitation only) Deadline Date: April 24, 2017

WEBINAR

Please join us on July 7, 2016 from 2 pm - 4 pm (EST) for an informational webinar session about the current PIRE competition.

Event address for attendees: <https://nsfevents.webex.com/nsfevents/onstage/g.php?MTID=e31228536425f6b99deae6167998fb75>

Event password: [pire](#)

Audio conference information

Toll #1-203-607-0666

Toll Free #877-951-7311

Participant passcode: 4732016

Audio will be teleconference only



Questions?