

*National Science Foundation
Office of International Science and Engineering*

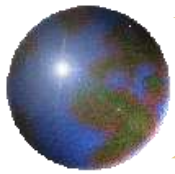
International Capacity Building Opportunities

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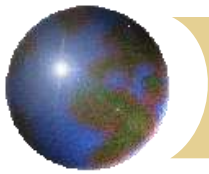


Presentation Outline:

NSF Opportunities

- **Geosciences** (Career, Post-doc, REU)
- **OISE** (PASI, IRFP, PIRE)
- **SEES**

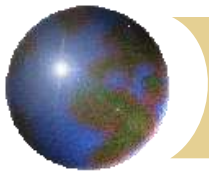
USAID/NSF MOU



Facilitates activities that engage a wide range of audiences in EAR research efforts

- **CAREER:** to encourage faculty to practice, and academic institutions to value, integration of research and education
- **POSTDOCTORAL FELLOWSHIPS:** Integrated program of independent research and education that address scientific questions within the scope of EAR disciplines (NSF 10-500)
- **REU Sites:** supports active research participation by undergraduate students (NSF 09-598)
- **Supplements:** to engage undergraduate and K-12 teachers in research (contact program manager)



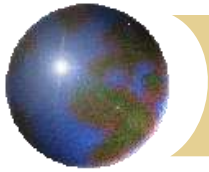


Earth Sciences Postdoctoral Program

- Independent research and education that addresses scientific questions within the scope of EAR disciplines
- Fellowship program may be conducted at any appropriate U.S. or foreign host institution
- 2-year fellowships
- Eligibility: -U.S. citizens/permanent residents; -within 3 years of PhD; -host institution and sponsoring scientist different from the doctoral degree and current position
- 2 months parental leave

Contact **Lina Patino** Lpatino@nsf.gov

NSF10-500

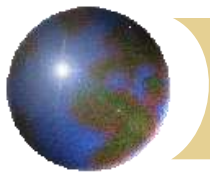


Pan American Advanced Studies Institutes (PASI)

- Jointly supported initiative between NSF and the Department of Energy (DOE)
- Short courses to disseminate advanced scientific and engineering knowledge
- Stimulate training and cooperation among researchers of the Americas
- Annual solicitation (January 15)

Contact Jessica Robin jrobin@nsf.gov

NSF10-517

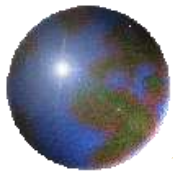


National Science Foundation Examples of Recent PASI Awards



- PANAMA – Integration of Research on Climate Change and Hazards in the Americas: July 2010
- ARGENTINA – Dynamics & Chemistry of the Upper Atmosphere: Oct 2010
- COSTA RICA - Volcanic Hazards and Remote Sensing in Pacific Latin America: Jan 2011
- ECUADOR - New Frontiers in Seismological Research: Sustainable Networks, Earthquake Source Parameters, and Earth Structure: July 2011

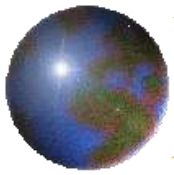




International Research Fellowship Program (IRFP)

- Provides support to carry out research at science and engineering establishments in foreign countries
- Research tenures ranges from 9 to 24 months
- Applications for work in developing countries encouraged
- Eligibility: -U.S. citizens/permanent residents; -within 2 years of PhD;
- Annual solicitation (mid-September)

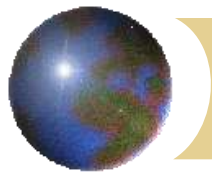
NSF 06-582



Partnerships for International Research & Education (PIRE)

- Research excellence via international collaboration
- Development of a diverse, globally engaged US science and engineering workforce
- Strengthened international engagement by U.S. institutions
- Next competition: 2011 with a **SEES Focus**

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12819



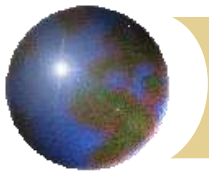
Science, Engineering and Education for Sustainability (SEES) is...

...a **multi-year**, cross-NSF initiative that will address challenges in climate and energy research and education using **a systems-based approach** to understanding, predicting, and reacting to change in the linked natural, social, and built environment.

2010: ocean acidification, water sustainability and climate, dimensions of biodiversity, earth systems modeling, and climate change education

2011: energy-environment-society nexus

<http://www.nsf.gov/pubs/2011/nsf11022/nsf11022.pdf>



NSF and USAID

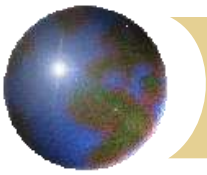
USAID

- Congressional mandate is foreign assistance
- Primary clients are developing countries
- Funding can flow to foreign partner via US institution
- Bureaus, regions, and missions need buy-in

MOU

NSF

- Congressional mandate is scientific research
- Primary client is the US science community
- Funding is allocated to US institutions
- Merit review for research proposals is fundamental



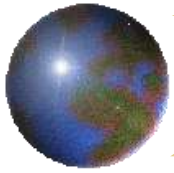
Leveraged Funding between NSF and USAID

USAID Benefits:

- **Scientist-to-scientist relationships build capacity**
- **Development needs and perspectives included in research efforts**
- **Institutional linkages endure over time**
- **Scientists communicate when politicians don't or won't**

NSF Benefits:

- **US science is more effective with fully engaged and funded international partners**
- **Foreign scientists possess local and regional knowledge**
- **Research questions span borders and are global in nature**



Partnerships for Enhanced Engagement in Research (PEER)

Stay tuned!

OISE expects to post a **Dear Colleague Letter** for **PEER** on the OISE website early this spring...