Funding Opportunities

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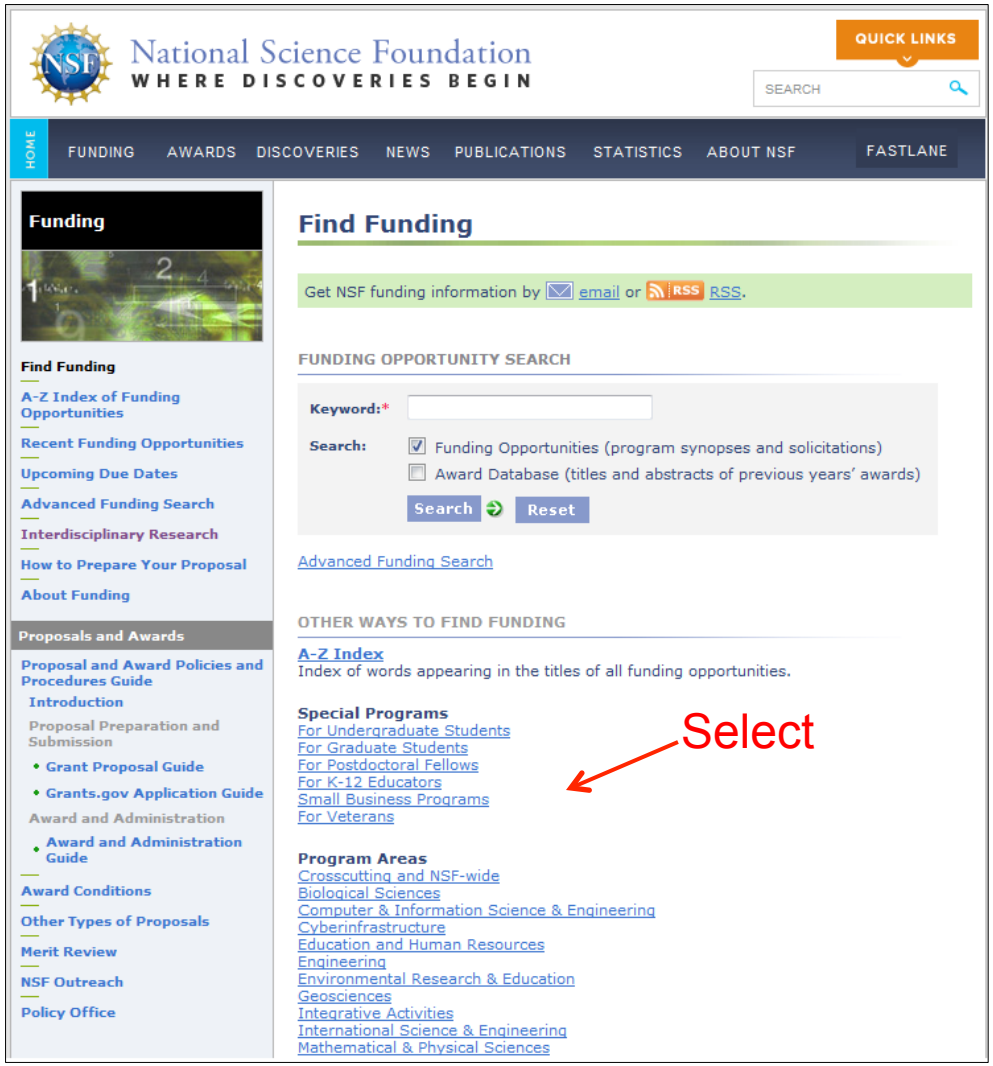
Where do funding opportunities come from?

- National priorities
- White House, Congress
- Societal needs (and public perception)
- Community input
- NSF Strategic Plan

http://www.nsf.gov/news/strategicplan/nsfstrategicplan_2011_2016.pdf

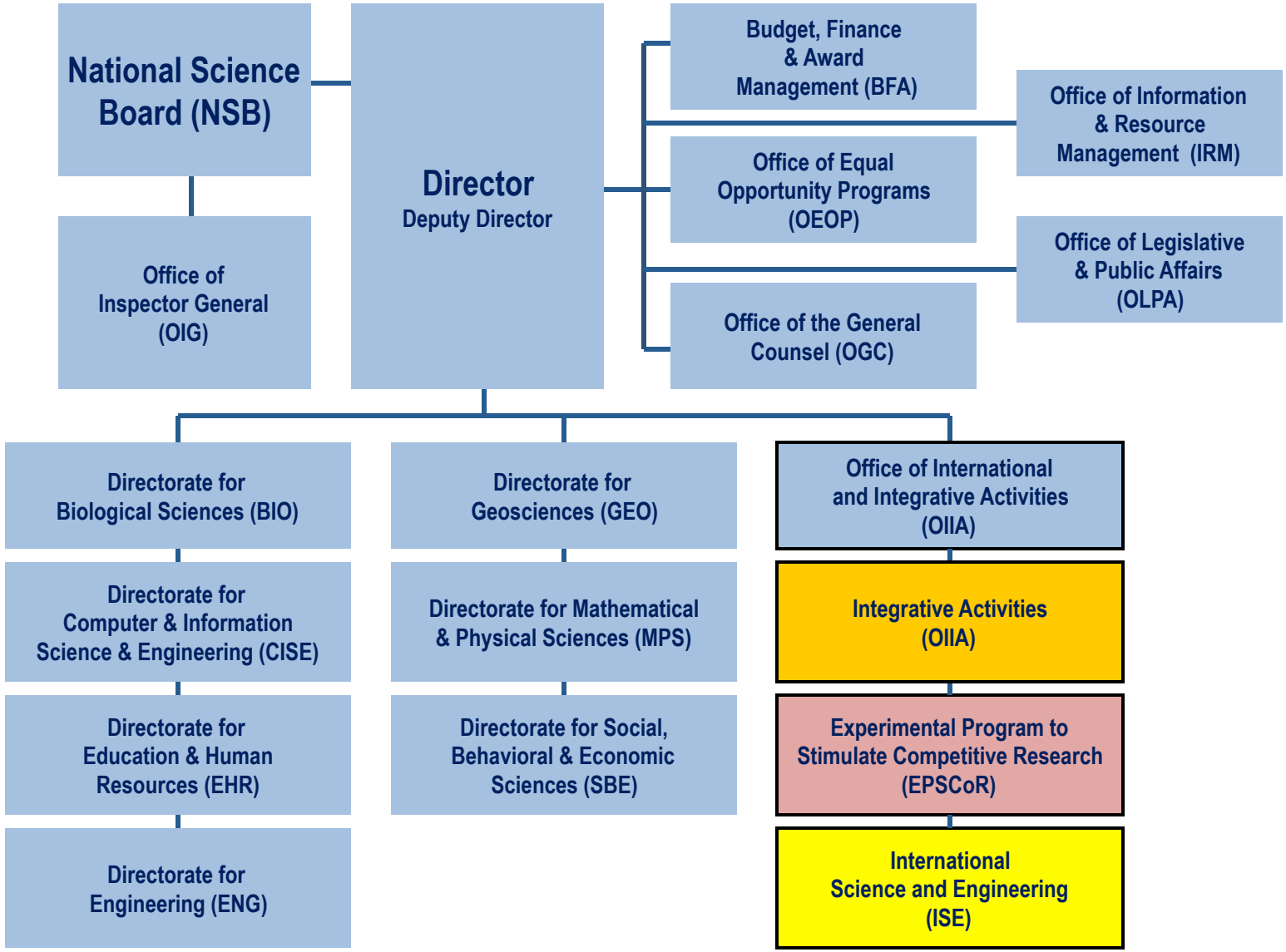
Find Funding …

http://www.nsf.gov/funding/pgm_list.jsp?type=xcut



1. Go to NSF home page http://www.nsf.gov
2. Select "Funding" tab
3. Choose: "Search Funding Opportunities" from drop down menu

NSF Organization



Science, Technology, Engineering, and Mathematics (STEM) Education

Government-wide reorganization of STEM education programs to support a national STEM strategy

- US Dept. of Education: K-12
- **NSF: undergraduate and graduate**
- Smithsonian: informal/outside classroom

NSF FY14 Budget Request to Congress …

National Graduate Research Fellowship Program (NGRF)

- **$325M** requested FY14
- Based on prior NSF GRFP
  - $30,000 stipend, $12,000 cost of education
- allow fellows to gain specialized experiences and training in key STEM areas
- 2700 new fellows anticipated in FY 2014 (increase of 700)

NSF Research Traineeships (NRT) Program

- **$55M** requested FY14
- Based on IGERT (Integrative Education & Research Traineeship)
  - Prepare graduate students for interdisciplinary research and careers as leaders/agents for change
  - innovative models for graduate education/training
  - collaborative research; transcend traditional disciplinary boundaries
- Focus on strategically identified research areas
- leverage NSF's traineeship and research investments

Catalyzing Advances in Undergraduate STEM Education (CAUSE)

- **$123M** requested FY14
- comprehensive agency-wide program for FY 2014
- improve STEM learning and learning environments
- broaden participation in STEM and increase institutional capacity
- build the STEM workforce of tomorrow
- *Consolidate existing NSF programs across EHR and other NSF directorates*

Research Experiences for Undergraduates (REU)

FY14 requests increase of $13M ($79M total)

students in first 2 years of college

REU Sites

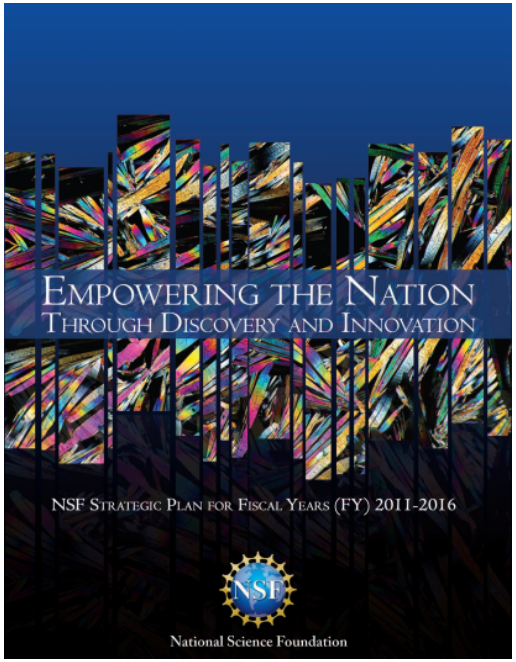
- Engage cohort of undergraduates in research
- Students who might not otherwise have opportunity to engage in research
- Students from outside host institution
- Single discipline or interdisciplinary (coherent intellectual theme)

REU Supplement

- 1-2 undergraduates participate in new or ongoing NSF project

- Faculty/researcher mentors
- Access to facilities and professional development opportunities

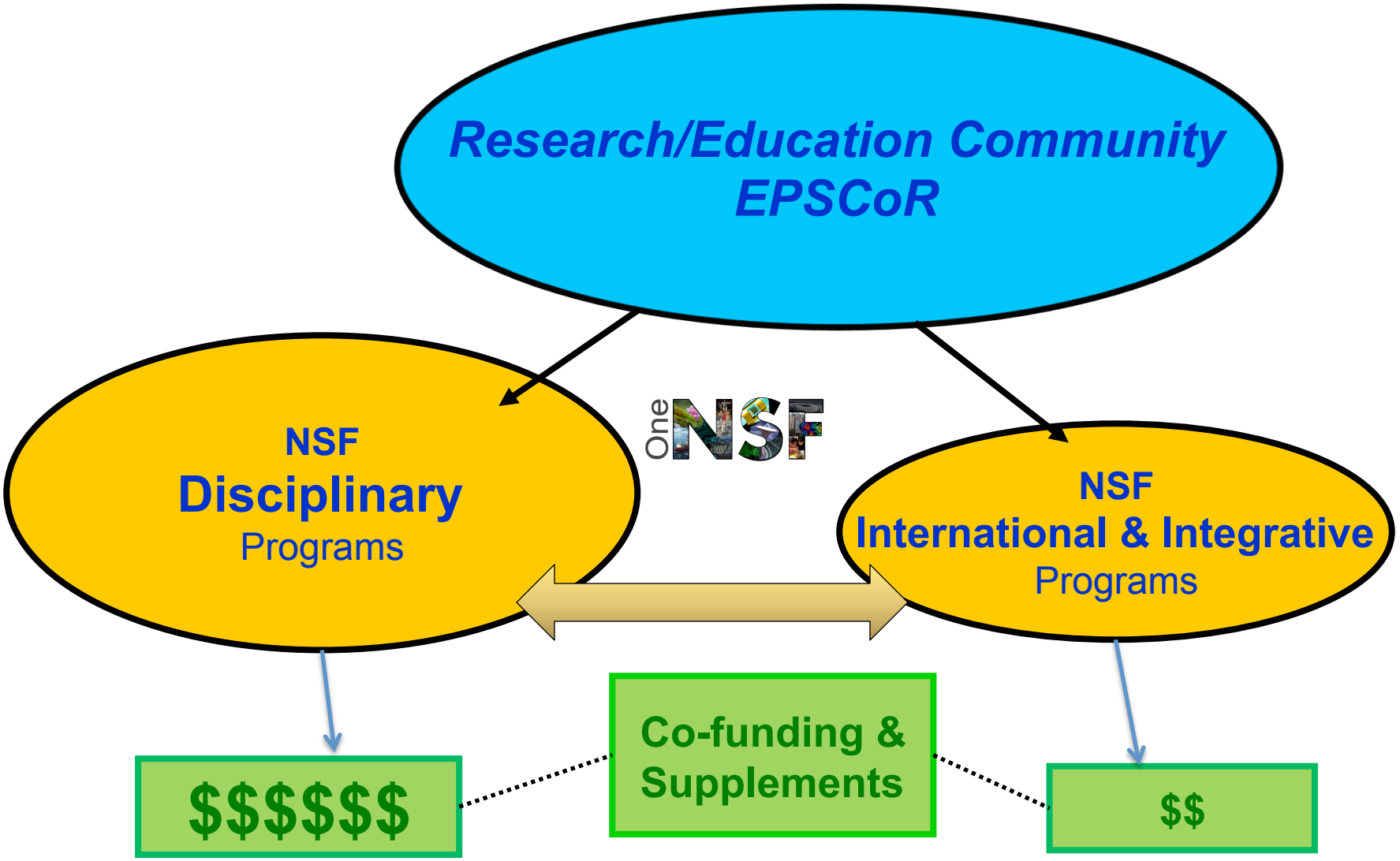
NSF encourages and supports international collaborations



Good science anywhere is good for science everywhere *provided that a free and open flow of information through a transparent process with measures to promote scientific ethics and integrity flourishes everywhere.*
NSF Director, January 23, 2012

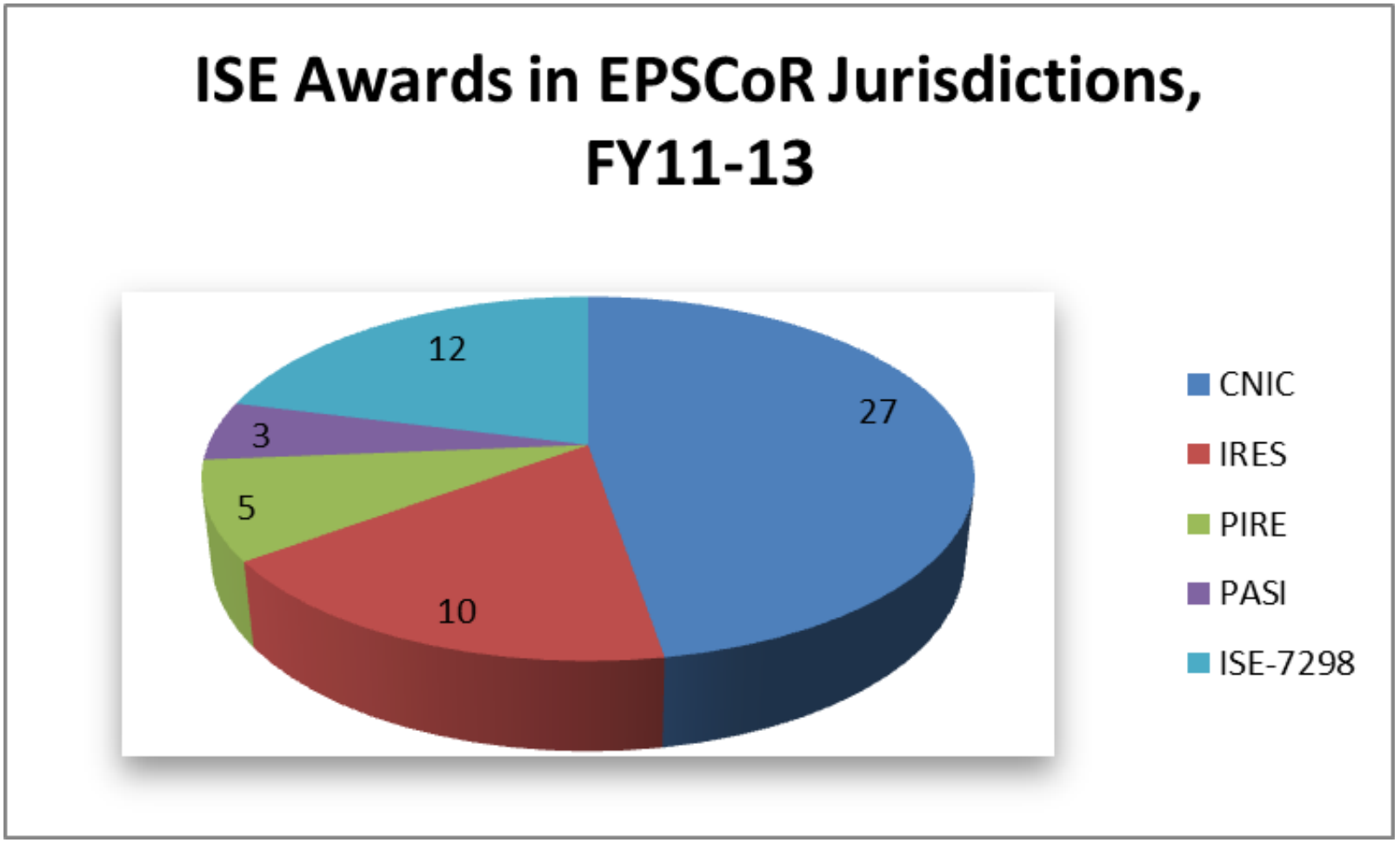
Keep the United States globally competitive at the frontiers of knowledge by ***increasing international partnerships and collaborations****.*
NSF Strategic Plan, Performance Goal #3

International activities at NSF are supported through a variety of mechanisms.



Keys to successful funding of international collaborations

- Scientific Merit -- Good Idea with goal of accelerating progress
- Address how collaboration will enhance the research
  - Value added: bring assets to bear
  - Mutual benefits: engage really good people
- Obtain commitment from foreign collaborators
  - New collaborations
- Involve U.S. students, junior researchers
  - Meaningful attention to diversity
  - Prepare, mentor, and assess
  - Pay travel, living costs, stipends
- Know and observe special rules
  - Visa regulations
  - Import and export rules
- Work with others in your institution
- Consult NSF staff
  - Disciplinary Program Officer
  - International Program Officer



- Success rate for proposals from EPSCoR jurisdictions=34% with 57 awards
- Top states are Louisiana, Alabama, Rhode Island

International Research Experiences for Students (IRES)

- **U.S. undergraduate & graduate student participants**
- Organized by U.S.-based faculty for an international research experience
- Foreign mentorship and partnering required
- Focused research experiences overseas (> 4 weeks)
- $250,000 maximum (for a 3-year award)

REU – USC 2011 UseIT Intern Class
Earthquake Information Technology

NSF 12-551

Partnerships for International Research and Education (PIRE)

Senior researchers and multi-institutional team:

- Bold, forward-looking research
- Facilitate student participation in international research collaborations
- Strengthen capacity for mutually beneficial international collaborations
- 50+ PIRE awards to date in more than 70 countries
- Typically, five-year duration and average total budget of ~$3.0 million
- Next competition in 2014

NSF 11-564

Graduate Research Opportunities Worldwide

Open to awardees of NSF's Graduate Research Fellowship Program

Partnership between NSF and international funding agencies

- 3-12 month international research collaborations
- GROW Fellows receive:
  - $5,000 to cover travel and research costs
  - living allowance from host country
- Ten partners in 2013: Denmark, Finland, France, Japan, Korea, Norway, Singapore, Sweden, Switzerland, Chile (more to come)

Contact: grow@nsf.gov

NSF 13-022

GRF Fellow uses GPS receivers in Norway.

Catalyzing New International Collaborations (CNIC)

Supports initial phases of NEW international collaboration

- Planning visits
- Research visits
- Initial data gathering activities
- Proof-of-concept
- ***NOT*** *workshops*

$10K-$70K for a year (includes IDC)
12 months maximum duration
Student travel encouraged

Successful result is follow-up full research proposal

Contact NSF Program

Science Across Virtual Institutes (SAVI)

SAVI
NSF Science Across Virtual Institutes

Groups of Researchers

- Platform for teams of NSF-funded investigators:
  - **Network** with partners abroad
  - **Leverage** resources to advance shared research interests
  - **Engage** students, postdocs, early career in international collaboration
  - **Stimulate** international interaction
  - **Collaborate** in emerging multidisciplinary areas, as appropriate
- SAVI is a mechanism, not a stand-alone program
- Initiated by NSF-supported teams for collaboration with non-U.S. teams

NSF 13-073

Partnerships for Enhanced Engagement in Research (PEER)

...where scientific research meets global development challenges

- **Support scientists in developing countries** who work with NSF-funded scientists
- Build scientific capacity and empower researchers in developing countries to use science and technology to address local and global development challenges
- Link to NSF-funded research
- USAID PEER-Science funding may be used to:
  - Train students and faculty
  - Equip laboratories and field stations
  - Fund research
  - Build scientific networks
- Administered by The **National Academies** for **USAID**

peer@nas.edu

Thank You