Suggestions for NSF/GEO Early Career PIs

January 15, 2010

Useful links from http://nsf.gov

Get NSF Updates by e-mail: Click on upper right-hand corner of http://nsf.gov
This is the single most important thing you can do; it enables you to customize the information you would like to gain from NSF, so that new information comes directly to you without your having to scan the webpage for updates.

NSF Organization Chart: http://nsf.gov/staff/orgchart.jsp
This is a great resource; you can click on any box to drill down and learn more about what goes on inside NSF. You will very quickly learn how NSF is organized and what it does by clicking on each box for an overview and then drilling down for specific information on areas of personal interest.

NSF Organization List: http://nsf.gov/staff/orglist.jsp
Once you have an overview from the Organization Chart, this list is useful if you want an overview of the internal structure within each of the Directorates and Offices. It also provides contact information and acronyms.

NSF Grant Proposal Guide: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg
This document should be read before you begin to prepare a proposal so you know the general process and requirements. Refer to it in depth during proposal preparation.

Search Funding Opportunities: http://nsf.gov/funding/

Search Awards: http://nsf.gov/awardsearch/
Reading about funded awards is a great way to get a tangible idea of the sort of work NSF supports. NSF program pages will provide a link to recently funded awards, but you can also use this search function. While all information regarding proposals is strictly confidential, abstracts of funded awards are available to the public. The NSF webpage makes it possible to search awards by any information that is available on the cover page or award abstract. You can search by PI name, institution, state, funding program, key word…..
You can also use the new site, Research.gov (the future FastLane): http://research.gov. The first link is Research Spending and Results, which is a very robust and fast search tool. PIs can also look up the status of their proposals in the Grants Application Status. This also gives results for NSF's partner agencies such as NASA, DoD, DoA, etc.

Merit Review at NSF http://www.nsf.gov/bfa/dias/policy/meritreview/
Consider this an absolute "MUST READ"! This one site offers a very comprehensive source of information on the NSF proposal review process. It covers everything from the time a proposal is submitted to NSF through to the award decision. **Review Proposals for NSF** The Merit Review page includes a section on "**Why you should volunteer to serve as an NSF reviewer**." Reviewing NSF proposals is arguably the best way to learn how to write a good one yourself. If you aren't already reviewing proposals, visit this site to learn how to become a reviewer.
Merit Review Criteria: Intellectual Merit and Broader Impacts:
http://www.nsf.gov/bfa/dias/policy/meritreview/facts.jsp#1; click on "Merit Review Broader **Impacts Criterion: Representative Activities" for examples of Broader Impacts**

A Guide for Proposal Writing http://www.nsf.gov/pubs/2004/nsf04016/nsf04016_5.htm

Standing Programs

See the NSF Organizational List for Standing Programs and Program Officers in your subject area. You can easily get to these via the NSF Organization list, or by using the links provided in the upper left-hand corner of http://nsf.gov under "Funding Opportunities"/"Program Areas".

GEO – Focused Cross-Cutting and Interdisciplinary Research Opportunities

This section highlights opportunities that cross Divisions and/or Directorates. These change over time, so be sure to check the main GEO page regularly for updates. There are many other opportunities that involve more than one program area within a Division. Check the various Division and Program pages for these.

CMG Collaborations in Mathematical Geosciences

http://nsf.gov/funding/pgm_summ.jsp?pims_id=503342

CNH Dynamics of Coupled Natural and Human Systems

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13681&org=ATM&from=home
ESE Environment, Society and the Economy
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503387&org=EAR&from=home
Dynamics of Coupled Natural and Human Systems
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13681

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503387&org=EAR&from=home
International Research and Education: Planning Visits and Workshops
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12815&org=GEO&sel_org=GEO&from=fund
IRFP International Research Fellowship Program
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5179&org=GEO&sel_org=GEO&from=fund
MRI Major Research Instrumentation
http://www.nsf.gov/od/oia/programs/mri/
"What Makes an MRI Proposal Fail, What Makes an MRI Proposal Competitive?"
http://www.nsf.gov/od/oia/programs/mri/2008ProposalPreparation.pdf
NSF/DOE Partnership in Basic Plasma Science and Engineering
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5602&org=ATM&from=home
P2C2 Paleo Perspectives on Climate Change
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5750&org=ATM&from=home
REU Research Experiences for Undergraduates
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&org=NSF
REU Site List
http://www.nsf.gov/crssprgm/reu/reu_search.cfm
WSC Water, Sustainability and Climate
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503452&org=&from_org=NSF
This is the first solicitation related to NSF's Climate Research Investment for FY 2010. Expect others in early February.

Early Career (Post Ph.D.) Opportunities

Early Career Networking and Training
ACCESS Atmospheric Chemistry Colloquium for Emerging Senior Scientists
http://www.asp.bnl.gov/ACCESS/
Eco-DAS Ecological Dissertations in the Aquatic Sciences
http://cmore.soest.hawaii.edu/eco-das/index.htm
DISCCRS Dissertation Initiative for the Advancement of Climate Change Research
http://disccrs.org
DISCO Dissertations Symposium on Chemical Oceanography
http://www.discosymposium.org/
ESWN Earth Science Women's Network
http://www.sage.wisc.edu/eswn/
Marine Geoscience Leadership Symposium
http://www.oceanleadership.org/education/leadership-symposium/
On the Cutting Edge Professional Development for Geoscience Faculty
http://serc.carleton.edu/NAGTWorkshops/index.html
PODS Physical Oceanography Dissertation Symposium
http://www.pods-symposium.org/
CAREER Faculty Early Career Development Program
http://www.nsf.gov/career
CEDAR, GEM, and SHINE Postdoctoral Research
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12779&org=ATM
CEDAR: Coupling, Energetics and Dynamics of Atmospheric Regions GEM: Geospace and Environment Modeling SHINE: Solar, Heliosphere and Interplanetary Environment
NSF Earth Sciences Postdoctoral Fellowships (EAR-PF)
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503144&org=GEO&sel_org=GEO&from=fund

This material was developed by C. Susan Weiler while supported as a Program Director within the National Science Foundation's Atmospheric and Geospace Sciences Division. Any opinions, conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the National Science Foundation. Contact cweiler@nsf.gov for an electronic copy of this document with links to the webpages.