

**FRESNO STATE**  
Discovery. Diversity. Distinction.

**Finding funding agencies and opportunities:**

**NSF – National Science Foundation**

Office of Research & Sponsored Programs

Ellen Shimakawa, Ph.D., Director

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Nancy Myers Sims, Grants & Contracts Development Specialist

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**“...to promote the progress of science; to advance the national health, prosperity and welfare; to secure the national defense; and for other purposes.”**

*-- National Science Foundation Act of 1950*

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***NSF funds discovery, learning, innovation and research infrastructure to boost U.S. leadership in all aspects of science, technology, engineering and mathematics (STEM) research and education.***

*In contrast, other federal agencies support research focused on specific missions, such as health, energy or defense.*

*--Recent NSF press kit*

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**Intellectual Merit**

**Broader Impacts**

are directly related to NSF's Mission.

Both are highlighted in Priorities and Vision statements and documents.

**Both must be addressed in all types of NSF proposals**

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**NSF's Organization**  
<http://www.nsf.gov/staff/orgchart.jsp>

- 7 Directorates – 6 –science based, 1 Education-Human Resource-based
- Staffing – ~42% Rotators (I.P.A, VSEE)
  - “Program” involvement in assembling peer reviewers
  - “Program” makes recommendations for awards

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**Using this to navigate “Find Funding”**  
<http://www.nsf.gov/funding/>

- Specific science-based, Directorate-limited programs: ie, Polar research, “Cybercorps”
- Cross-cutting/NSF-wide programs
  - Cross-, Multi-disciplinary research/approach: ie, Research at (Primarily) Undergraduate Institutions (RUI, still using NSF 00-144?)
  - Melding science with STEM education & workforce development: ie, CAREER

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*Find Funding strategies, cont.*

**NSF Awards Search:** <http://www.nsf.gov/awardsearch/>

- Identify potential Programs How did *other* funded projects (awards) address agency Mission and program relevance?
- NSF staff contacts
- Identify potential collaborators, (competitors), reviewers

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**NSF List-serves**

- <http://www.nsf.gov/mynsf/>
- New programs, program announcements

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*You 've got to serve somebody....*

How does your proposed activity help [*insert agency name here*] achieve their Mission?

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Think critically about your project's

**Intellectual Merit**

**Broader Impacts**

and specific program relevance (ie, RUI)

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Talk to Program Staff

- The 30-second “elevator” talk
- You are establishing a long-term relationship
- Other appropriate programs, agencies?
  
- It is their job to be encouraging.....

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Frame your project in terms of a solution to the agency's problem/mission

- Use their terminology, phrases
- Your research problem is *central* to their Mission/program
- Your “solution,” using your personnel and in your setting, is the smartest one

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**REUSE  
REDUCE  
RECYCLE**

- Think **broadly**. Consider the specifics of your project to identify any particular aspects -- geography?, target demographic? -- that might have resonance with an otherwise unlikely funding agency.
- Talk to us or knowledgeable others! We may see or know of appropriate, novel funding opportunities.

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**ORSP: Full-service operation**

- Search for Funding Sources
- Help Develop Budgets
- Review Proposals Prior To Submittal
- Assure That Agency and University Guidelines Are Followed

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**Current NSF Awards**

| Award Date | Expiration Date | PI Name           | Award Title  | Amount      |
|------------|-----------------|-------------------|--|-------------|
| 9/1/2013   | 8/31/2018       | Rawat, Mamta      | RUI: Thiols in Cyanobacteria   | \$519,700   |
| 7/1/2013   | 6/30/2015       | Putirka, Keith    | Collab Res: From Gabbros to Granites - An Investigation of Arc-Scale Differentiation at the Guadalupe Igneous Complex, Sierra Nevada, C    | \$103,172   |
| 3/15/2013  | 2/28/2014       | Price, Paul       | RUI: Collaborative Research: Sample Size Bias in Judgments of Averages   | \$69,089    |
| 1/1/2013   | 12/31/2014      | Putirka, Keith    | Collab Research: Recharge, Mixing and Eruption Triggering Mechanisms at Chaos Crags and 3915 Eruptions, Lassen Volcanic Center, California | \$105,372   |
| 6/1/2012   | 5/31/2015       | Gao, Yongsheng    | Searching & Discovering New Physics at the ATLAS Experiment of LHC   | \$222,441   |
| 4/1/2012   | 3/31/2014       | Forgacs, Tamas    | REU Site: Calif State University, Fresno Research Experiences in Math  | \$98,537    |
| 12/1/2011  | 11/30/2015      | Hasson, Alam      | Collab Res: Reactivity Associated with Ambient Particles: Hydrogen Peroxide, Quinones, Transition Metals and Hydroxyl Radical              | \$208,959   |
| 7/15/2011  | 6/30/2014       | Lacht, Lorin      | RUI: Effects of visual phonetic similarity on audiovisual spoken word recognition  | \$107,922   |
| 6/15/2011  | 5/31/2014       | Ho, Pei-Chun      | RUI: Investigation of Strongly Correlated Electron Behavior in Rare Earth Related Materials  | \$170,000   |
| 5/15/2011  | 4/30/2014       | VandeWater, Peter | Collab Res: P2C2: Terrestrial Late Pleistocene Paleoenvironment ...  | \$37,825    |
| 2/1/2011   | 1/31/2016       | Hasson, Alam      | Chemistry Graduate Scholarship Program (GRASP) at Fresno State   | \$460,000   |
| 11/1/2010  | 10/31/2013      | Hasson, Alam      | RUI: Mechanistic and Kinetic Studies of the Atmospheric Chemistry of Isoprene and its First-Generation Products                            | \$168,481   |
| 9/1/2010   | 2/28/2014       | Kati, Madhusudan  | ULTRA-Ex: Resilience in an Urban Socioecological System: Water Management as a Driver of Landscape and Biodiversity...                     | \$299,232   |
| 10/1/2009  | 9/30/2014       | Andrews, David    | Western Regional Noyce Conference (WRNOC)  | \$648,481   |
| 6/1/2009   | 5/31/2015       | Andrews, David    | Fresno State Teaching Fellows (FRESTEF)  | \$1,500,000 |

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## Grant Proposal Guide

Proposal Preparation

- Basic formatting
- Proposal Contents

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=gpg](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg)

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## Budgeting – our Reality

- Salaries
- Fringe Benefits
- Equipment
- Travel
- Participant support costs
- Other Direct costs
  - Materials and Supplies, Publications, Consultant Services, Computer Services, Subawards, Other

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## Responsible Conduct of Research

Since 2010, institution is required to complete a certification that the institution has a plan to provide appropriate training and oversight in the responsible and ethical conduct of research to undergraduates, graduate students, and postdoctoral researchers who will be supported by NSF to conduct research.

<http://www.fresnostate.edu/academics/grants/documents/Conduct.pdf>

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**FASTLANE**

NSF's electronic portal for proposal submissions, updates/changes, financial functions

<http://www.fastlane.nsf.gov>

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**BizFlow**

- Grant Manager/PI discuss upcoming proposal
- Grant Manager initiates PIF routing process through BizFlow
- PI receives email notification, approves/denies
- Department Chair approves/denies PIF, then Dean approves/denies
- PIF routed to AVP/VP of Admin
- PIF notification to GM/Analyst, entered into system

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