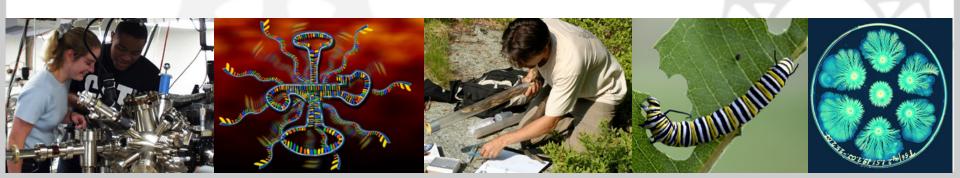
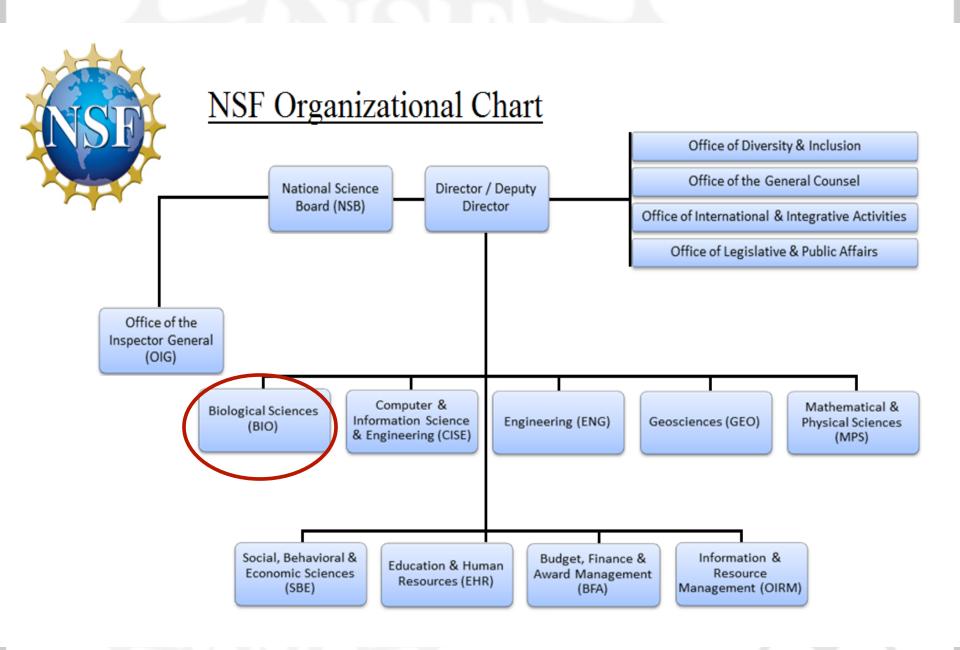
## Funding Opportunities at the National Science Foundation

Sally E. O'Connor BIO/Division of Biological Infrastructure

GCAT Workshop: Synthetic Biology UMBC, June 25, 2014





NEON

#### Directorate for Biological Sciences (BIO)

**Emerging Frontiers (EF** 

Division of Biological Infrastructure (DBI) Division of Environmental Biology (DEB)

Division of Integrative Organismal Systems (IOS) Division of Molecular and Cellular Biosciences (MCB)

Human Resources

Research Resources

**BIO Centers** 

Population and Community Ecology

**Ecosystem** Science

**Evolutionary Processes** 

Systematics & Biodiversity Science

Behavioral Systems

Developmental Systems

**Neural Systems** 

Physiological & Structural Systems

Plant Genome Research Program

Molecular Biophysics

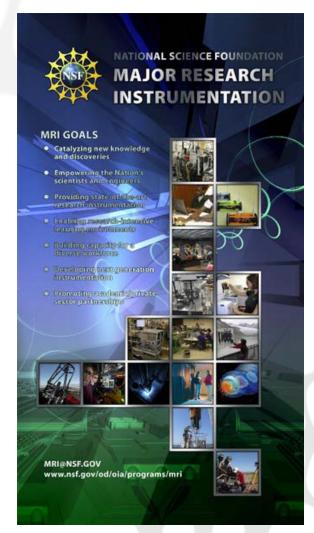
Cellular Dynamics and Function

Genetic Mechanisms

Systems and Synthetic Biology

#### **Major Research Instrumentation (MRI)**

- > NSF-wide, ~\$50k 6M, funding for PUIs
- Supports the acquisition of major state-of-the-art instrumentation to improve access to, and increased use of, modern instrumentation by scientists, engineers, and students;
- > Supports the development of the next generation of instrumentation (cheaper, faster, better)
- > Enable well-equipped research environments that integrate research with education



#### Research Opportunity Awards (ROA)

- Funded as supplements to active NSF grants
  - Salary or stipend for undergraduate faculty
  - Travel to host lab and/or to attend a meeting
  - Research supplies
- Provide support for faculty from PUIs to participate in ongoing, NSF-funded research projects for limited periods, usually a summer
- •Goal -- Provide research experience for faculty to enhance research at home institution and host lab, improve research & teaching
- Making connections with an NSF grantee:
  - Network at scientific meetings
  - Consult NSF FastLane list of awards in relevant program
  - Contact NSF Program Director in your area of interest (Consult the NSF web site for contact information)

#### REU Site: Research Experience for Undergraduates

- NSF-funded programs run by institutions
- NSF-wide: all disciplines including cross-disciplinary
- Typical program: 10-weeks; 10 students; summer
- Main focus: <u>research</u> plus orientation, lab prep, workshops, seminars, presentations, etc





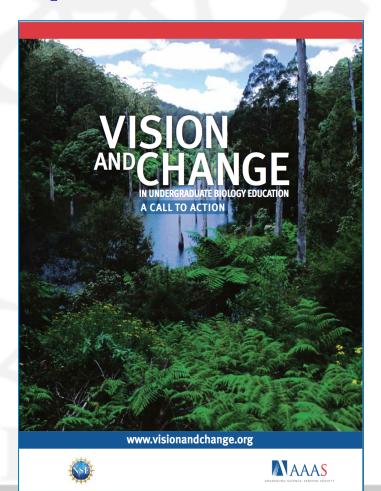




## Research at Undergraduate Institutions (RUI)

- Designed to support Research in <u>Predominantly</u>
   <u>Undergraduate</u> <u>Institutions</u> (PUI)
- RUI is a mechanism, not a separate funding stream
- ~ 10% of proposals submitted to BIO research programs are RUIs
- "RUI" should be designated in the title of the proposal
- Five page (max) "RUI impact statement" must accompany proposal
- Check <a href="http://www.nsf.gov/home/crssprgm">http://www.nsf.gov/home/crssprgm</a> for announcement (NSF-wide)

# Existing Funding Opportunities related to Vision and Change and Departmental Reform



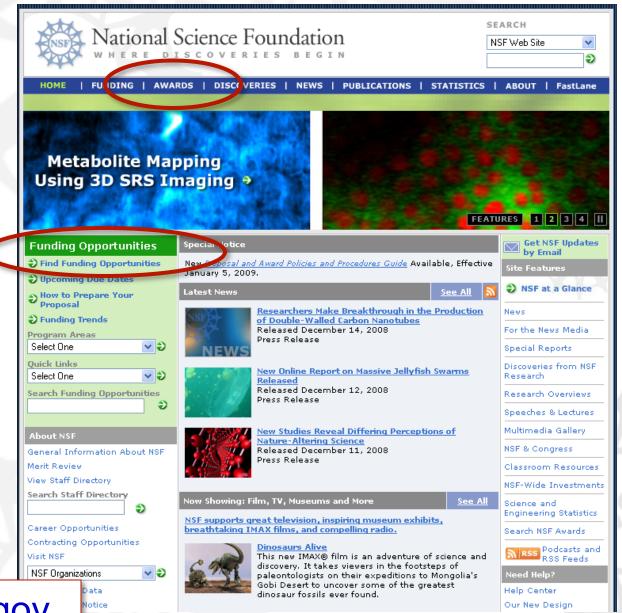
#### Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)

- Goal: "focus on any topic likely to lead to improved participation, learning, or assessment in undergraduate biology curricula"
  - active and inquiry-based learning
  - engage faculty in professional development
  - incorporate new fields into the biology curriculum
  - improve assessment of student learning
  - improve transition from 2-year to 4 year institutions
  - incorporate authentic research experiences into undergraduate laboratory courses
- Incubator awards (\$50 K) and Full awards (up to \$500K for five years)
  - Current solicitation is NSF 13-520. A new program solicitation is expected in the fall with a proposal deadline in the winter.

### Improving Undergraduate STEM Education (IUSE)

- Replaces TUES, STEP, and WIDER programs
- Program Description released in January, 2014
- Proposals due February, 2014
- There might be a new solicitation released soon for a due date in the fall for another round of proposals.

#### Finding funding opportunities



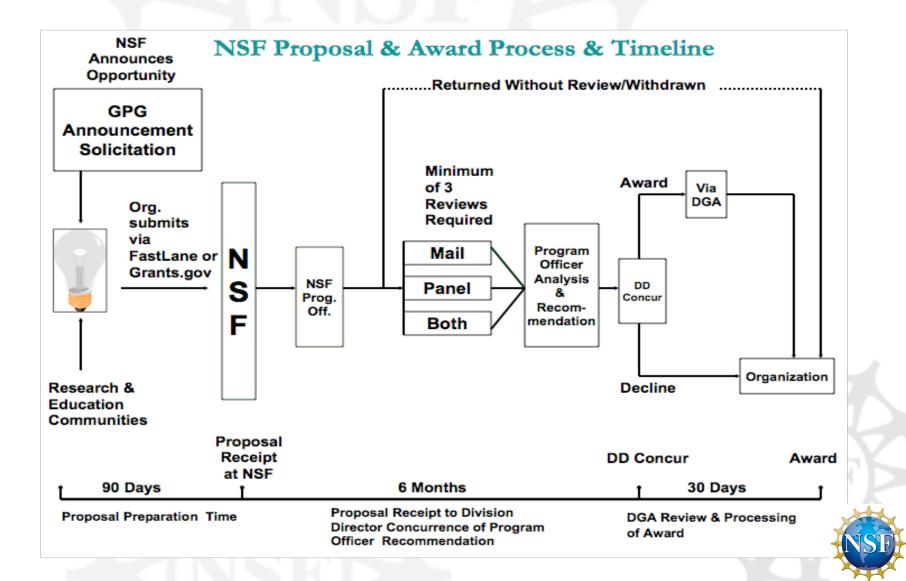
#### Where do you submit your ideas?

http://www.nsf.gov

Directorate → Division → Programs →
Information on NSF contacts, award abstract, program
description, deadlines

- ·Guide to Programs (GTP)
- ·Proposal & Award Policies & Procedure Guide (PAPPG)
  - · Grant Proposal Guide (GPG)
  - · Award and Administration Guide (AAG)
- ·Sign up for "NSF Updates"

#### In a Nutshell:



#### Participating in a Panel

- Contact your program director
- Offer to serve as an ad hoc reviewer and/or panelist
- E-mail your CV to your program director
- Include your contact information
- Indicate your areas of expertise
- Follow up with a phone call
- Be persistent, but polite and pleasant

Sally O'Connor <u>soconnor@nsf.gov</u>
Chuck Sullivan <u>csulliva@nsf.gov</u>
Terry Woodin <u>twoodin@nsf.gov</u>

