

LUNCH WITH NSF PROGRAM DIRECTORS

NHC annual conference

July 16 2020



Jack Meszaros



Robert O'Connor



Joy Paushke



Walt Peacock

Session Objectives

- Introduce NSF to participants
- Help participants to understand different programs at NSF
- Help participants develop fundable proposals
- Learn insights about post-COVID 19 on gaps, opportunities and funding!

Session Agenda

- 12:45-12:50 pm: Introductory remarks by Cynthia
- NSF program directors' self-introduction of programs
 - 12:50-1 pm: Dr. Meszaros (big picture of NSF; S&T coordination within NSF and other agencies; DRRG etc.)
 - 1-1:10 pm: Dr. O'Connor (DRMS/SBE, RAPID, Doctoral dissertation etc.)
 - 1:10-1:20 pm: Dr. Paushke (CMMI, NHERI, EER etc)
 - 1:20-1:30 pm: Dr. Peacock (HDBE, CIS, CAREER, supplements, enabling program etc.)
- 1:30 – 1:55 pm: Audience Q&A
- 1:55 – 2 pm: wrapping up

Session Housekeeping

- Pls MUTE yourself (Panelists: pls do NOT mute yourself)
- Pls CAPITALIZE YOUR QUESTION, when sending through the chat box
- If you know whom you want for answering your question, pls call out her/his name in your QUESTION

NSF

A Brief Overview

NSF Strategic Goals

- Strategic Goal 1: Transform the Frontiers of Science and Engineering

“to promote the progress of science”

- Strategic Goal 2: Stimulate Innovation and Address Societal Needs through Research and Education

“to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes”

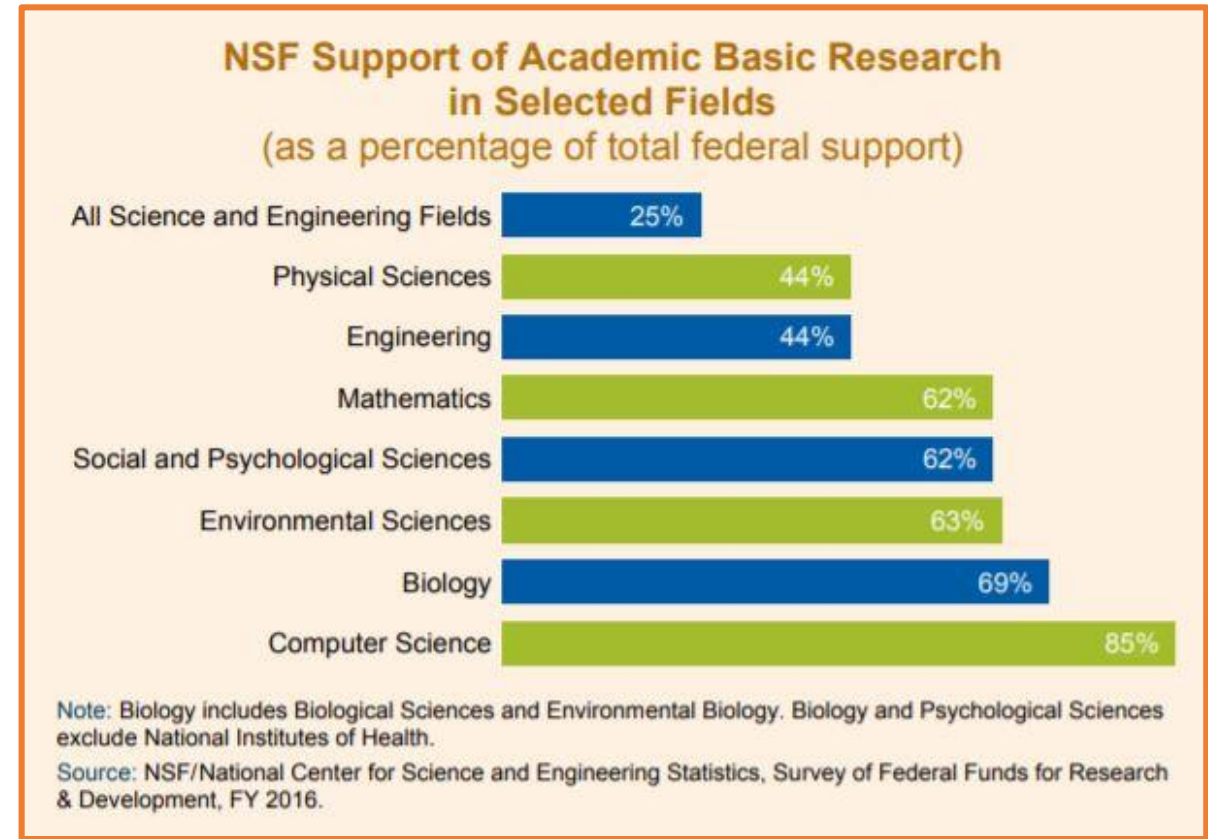
Basic Research Consideration

IMPORTANT

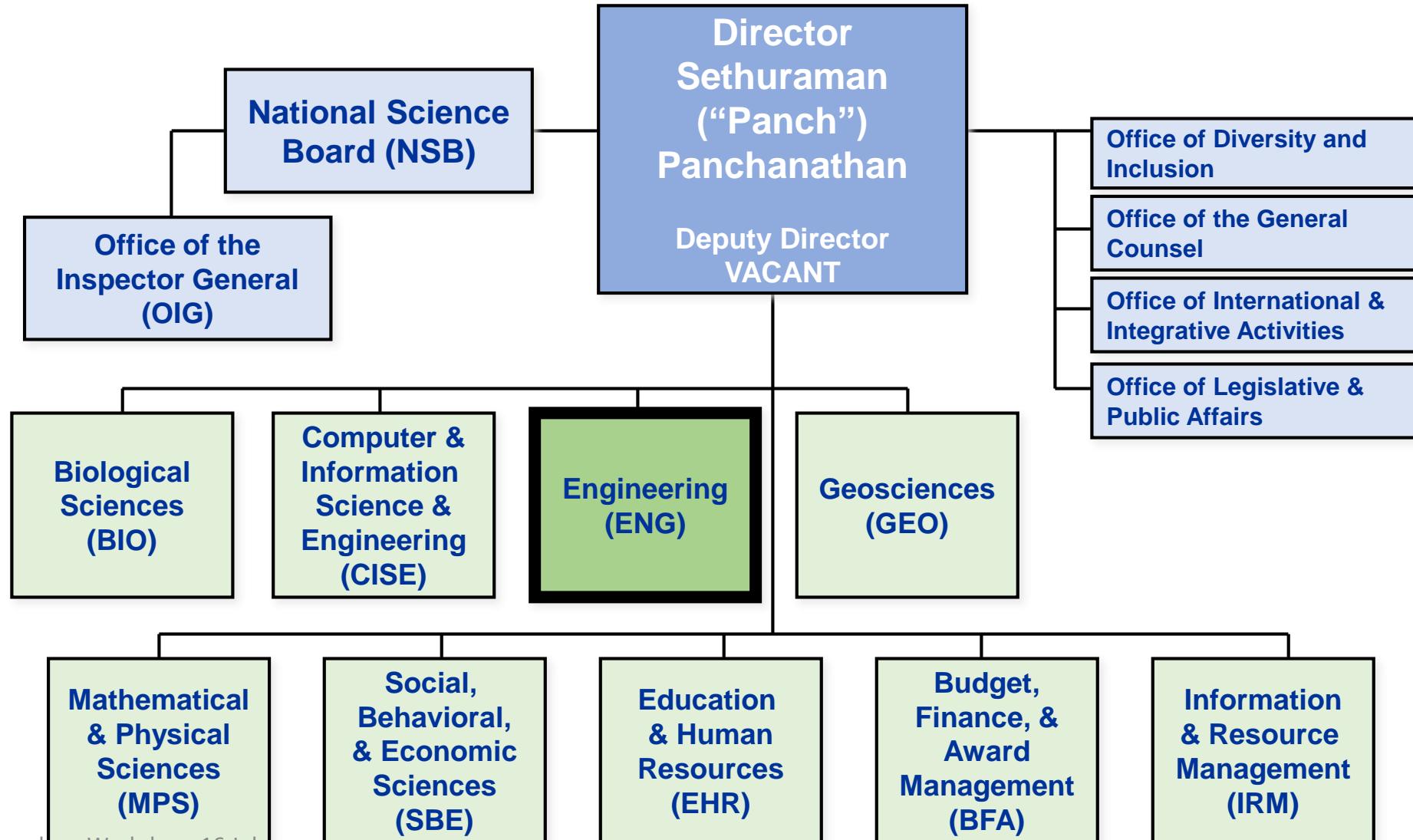
- Basic knowledge mission → not applied research
- Winning proposals focus on research, not development
- If the focus of the proposal is an **artifact** (a device, system, product, process,...) → it's probably development
- If the focus of the proposal is **knowledge** (the truth of a hypothesis/phenomenon) → it's probably research

What NSF Does

- Supports all fields of fundamental science and engineering, except for medical sciences.
- Ensures that research is integrated with education so that today's revolutionary work will also be training tomorrow's top scientists and engineers.



National Science Foundation



Disaster-relevant Research at NSF

An Overview

Funding Mechanisms

- All programs welcomes disaster-relevant proposals that can move that field's knowledge forward.
Implications for disaster reduction are valuable Broader Impacts.
- Key Programs:
 - - Humans, Disasters, and the Built Environment/ENG – Walt Peacock
 - Decision, Risk and Management Sciences/SBE – Bob O'Connor

Co-review

- Two Special Solicitations:
 - CIVIC Innovation Challenge (Closes August 3, webinars archived online)
 - Coastlines and People (Upcoming Due Dates: Aug 10 and Oct 28)
 - Disaster Resilience Research Grants (Closes Sept 15, webinar August 3)

Additional Important Investments

- NSF invests heavily in infrastructure for disaster-relevant research, including cyberinfrastructure
 - Natural Hazards Engineering Research Infrastructure/EnG – Joy Pauschke
- We are funding 7 Extreme Event Reconnaissance networks
 - *Geotechnical engineering*
 - *Social sciences*
 - *Structural engineering*
 - *Nearshore systems*
 - *Operations and systems engineering*
 - *Sustainable material management*
 - *Interdisciplinary science and engineering*
 -

NSF Disaster S&T in the Federal Context

An Overview

Interagency Activities

- White House, Office of Science and Technology Policy, National Science and Technology Council
 - Subcommittee on Resilience S&T
 - U.S. Group on Earth Observations
 - Networking and Information Technology Research and Development
 - U.S. Global Change Research Program
- Congressionally Mandated Coordinating Bodies:
 - National Windstorm Impacts Reduction Program (NWIRP)
 - National Earthquake Hazards Reduction Program (NEHRP)