NSF Social, Behavioral and Economic Sciences Directorate

Antoinette WinklerPrins, Deputy Division Director, Behavioral and Cognitive Sciences
Andy DeSoto, Senior Advisor, Innovation, Strategic Engagements, and Partnerships
Directorate for Social, Behavioral and Economic Sciences

Kellina Craig-Henderson
Assistant Director

Vipin Arora
Acting Deputy Assistant Director

Behavioral and Cognitive Sciences
- Joan Sereno
  Division Director
- Antoinette WinklerPrins
  Deputy Division Director

Social and Economic Sciences
- Rayon Fouché
  Division Director
- Alan Tomkins
  Deputy Division Director

National Center for Science and Engineering Statistics
- Emilda Rivers
  Division Director
- Vipin Arora
  Deputy Division Director

Office of Multidisciplinary Activities/Office of the Assistant Director
- Andy DeSoto
  Senior Advisor for Innovation, Strategic Engagements and Partnerships
Directorate for Social, Behavioral and Economic Sciences

Behaviorsal and Cognitive Sciences
- Archaeology
- Biological Anthropology
- Cultural Anthropology
- Social Psychology
- Cognitive Neuroscience
- Developmental Sciences
- Science of Learning and Augmented Intelligence
- Linguistics & Dynamic Language Infrastructure
- Perception, Action and Cognition
- Human Environment and Geographical Sciences
- Human Networks and Data Science

Social and Economic Sciences
- Economics
- Accountable Institutions and Behavior
- Security and Preparedness
- Sociology
- Decision, Risk and Management Sciences
- Law and Science
- Methodology, Measurement and Statistics
- Science of Organizations
- Science and Technology Studies
- Science of Science: Discovery, Communication & Impact
- Secure & Trustworthy Cyberspace

National Center for Science and Engineering Statistics
- Measuring
  - The nation’s investment in R&D
  - The education and workforce characteristics of scientists and engineers
- Developing indicators of the nation’s competitiveness and innovation capacity
- Supporting research on the science and technology enterprise

Office of Multidisciplinary Activities
- Build and Broaden
- Ethical and Responsible Research
- Research Experiences for Undergraduates Sites
- SBE Postdoctoral Research Fellowships
- SBE Science of Broadening Participation

https://ncses.nsf.gov/
https://www.americasdatahub.org/
SBE and Extra-Programmatic Activities

Midscale Research Infrastructure
Acronyms - reference

Directorates

• BIO biological sciences
• GEO geosciences
• ENG engineering
• CISE comp sci and eng
• MPS math and physical sci
• EDU STEM education (recently renamed)
• TIP technology, innovation and partnerships (new)

Programs

• SAI – Strengthening American Infrastructure
• IHBEM - Incorporating Human Behavior in Epidemiological Models
• CRCNS – Collab Res. Comp. Neurosci.
• NCS - Integrative strategies for understanding Neural and Cognitive systems
• CompCog - Computational Cognition
• DISES – Dynamics of Integrated Socio-Environmental Systems
• NNA – Navigating the New Arctic
• URoL – Understanding the Rules of Life
• EEID – Ecology and Evolution of Infectious Diseases
• REIs – Regional Innovation Engines
• HDR – Harnessing the Data Revolution
• FWHTF – Future of Work at the Human-Tech Frontier
Understanding the Brain

Some focus areas:

• Biology and machines: intelligence and learning
• Individuality and variation, in different modalities
• Neural processes in complex environments
• Neural, cognitive, and machine intelligence. Specialized and general intelligence.
• Machines show limited behavior, biases, and little lifelong learning. How to bridge the gap?
• Neural correlates of intelligent behavior, learning, and creativity. Variation and biological diversity – comparative and evolutionary perspectives.
• Currently updating the website: https://www.nsf.gov/news/special_reports/brain/
Developing New Partnerships That Multiply Impact

Social Science Research Council: Advancing Scientific Knowledge about the Impact of Public Health Guidance

William T. Grant Foundation: Increasing the Use, Usefulness and Impact of Research about Youth
Foundational Research, Scientific Infrastructure

- National Institute of General Medical Sciences
- NSF Dynamic Language Infrastructure - NEH Documenting Endangered Languages (DLI-DEL)
- National Endowment for the Humanities
- United States Census Bureau
- Bureau of Labor Statistics
- Panel Study of Income Dynamics
Open Science at NSF

August 25, 2022, White House Office of Science and Technology Policy (OSTP) issued the “Nelson Memo” memorandum on public access policies instructing all federal science funding agencies to ensure free, immediate, and equitable access to federally-funded research, research products and underlying data.

Key Takeaways

- **Zero-embargo** requirement for federally funded research products, specifically publications and data.
- Effect will be to **drive discovery and innovation and promote equity**.
- **Public access intersects with scientific integrity** through transparent disclosures of conflicts of interest, sources of funding, and the level of peer-review of scholarly materials.
Nelson Memo Timetable for Implementation

- **Memo Issued**: Aug 25, 2022
- **Submit new or updated public access plans to OSTP and OMB**: Feb 21, 2023
- **Effective date of new policy/implementation**: Dec 31, 2025

**Public Access/Open Science Working Group**
- Identifying issues to consider
- Sub-groups working on issues

“Complete and publish full policies for plans implementing provisions”

https://beta.nsf.gov/public-access

PublicAccess@NSF.gov
Discussion

- What are some of the scientific trends and opportunities for brain and behavioral sciences?

- Help identifying gaps and interstitial spaces for SBE and beyond?

- How can SBE be “ahead of the curve?”
ICYMI

In this 2022 Waterman lecture, awardee Daniel Larremore of the University of Colorado discussed his lab’s research using mathematical methods and network analyses to examine the academic employment and doctoral education of all tenure-track faculty at Ph.D.-granting U.S. universities from 2011 to 2020. The results reveal inequalities in faculty production, prestige, retention and gender, exacerbated by recurring patterns of attrition.

Help nominate for a repeat in ’23!