CISE CAREER Proposal Writing Workshop

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Thank you!

- **Organizers:** Wenjing Lou and the team from Virginia Tech
- **Host:** George Washington University
- **CISE program officers:** Nicholas Goldsmith, Mitra Basu, Almadena Chtchelkanova, Darleen Fisher, Jenny Li, Phil Regalia, Jie Yang
National Science Foundation’s Mission

“To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense...”
Foundational, Translational, Societal Impacts

Foundational
How information is gathered and analyzed

44 of the 72 Turing Awardees have received NSF funding

Translational
How the world computes and communicates

>$1 Trillion of economic impact

Societal
Benefitting American communities

Changing the face of computing

https://www.nationalacademies.org/our-work/depicting-innovation-in-information-technology
NSF’s STRATEGIC THEMES

Advancing Emerging Industries for Economic and National Security

Creating Opportunities Everywhere

Building a Resilient Planet

Strengthening Research Infrastructure
Programmatic directorates and offices supporting the NSF Mission

- Biological Sciences
- Mathematical & Physical Sciences
- Integrative Activities
- Engineering
- Computer & Information Science & Engineering
- Geosciences (including Polar Programs)
- Education & Human Resources
- Social, Behavioral & Economic Sciences
- Technology, Innovation and Partnerships
- International Science & Engineering
Now: CISE Organization and Core Programs

Office of Advanced Cyberinfrastructure (OAC)
- OAC core
  - Data/Software Leadership and Advanced Computing
  - Networking/Cybersecurity Learning and Workforce

Computing & Communication Foundations (CCF)
- Algorithmic Foundations
- Communications and Information Foundations
- Software and Hardware Foundations
- Foundations of Emerging Technologies

CISE Leadership
- Dilma Da Silva, Acting Assistant Director
- Joydip Kundu, Deputy Assistant Director
- Michael Littman, Division Director
- Wendy Nilsen, Deputy Division Director
- Siddiq Qidwai, Acting Deputy Division Director
- Katie Antypas, Office Director
- Amy Walton, Deputy Office Director
- Ellen Zegura, Division Director
- Behrooz Shirazi, Deputy Division Director

Computer & Network Systems (CNS)
- Computer Systems Research
- Networking Technology and Systems
- Education and Workforce Development

Information & Intelligent Systems (IIS)
- Human-Centered Computing
- Information Integration and Informatics
- Robust Intelligence
NSF funds 80% of federally-funded CS in the US at academic institutions.

- 6,647 Grad students
- 21,623 Individuals from senior researchers to undergrads
- 371 Institutions supported
- 48 + D.C. + 1 territory
- 89 Minority-serving Institutions

- $1,035.9 M Enacted budget for fiscal year 2023
- 6,401 Proposals evaluated
- 1,847 Awards made
- 29% Funding rate

All data depicted is for fiscal year 2023.
What is CAREER?

A chance to get started on your research/education career?

A reward for an already great start on your career?

A checkmark for your tenure case?
What is CAREER?

Intent
• Provide stable support at a sufficient level and duration
• Enabling careers as
  • Outstanding researchers
  • Outstanding educators

Program website
• https://new.nsf.gov/funding/opportunities/faculty-early-career-development-program-career

Deadline
• July 24, 2024
What is CAREER?

CAREER is not meant to recognize outstanding scholarship, but to enable it.

No need to wait.
• We encourage to submit your first CAREER proposal within the first couple years of your position.

CAREER is different from CISE Research Initiation Initiative (CRII)
• CRII is smaller award
• For those lacking access to organizational resources
• Aims to broaden institutions doing computing research
CISE programs accepting CAREERs

CISE Directorate

Office of Advanced Cyberinfrastructure (OAC)
- OAC core

Computing & Communication Foundations (CCF)
- Algorithmic Foundations
- Communications and Information Foundations
- Software and Hardware Foundations
- Foundations of Emerging Technologies

Cross-cutting programs:
- Cyber-Physical Systems
- Foundational Research in Robotics
- Secure and Trustworthy Cyberspace

Computer & Network Systems (CNS)
- Computer Systems Research
- Networking Technology and Systems
- Education and Workforce Development

Information & Intelligent Systems (IIS)
- Human-Centered Computing
- Information Integration and Informatics
- Robust Intelligence
Finding funding opportunities

Look for funded projects
• NSF awards are here:  https://www.nsf.gov/awardsearch

Talk to program officers
• NSF staff are here:  https://www.nsf.gov/staff

Browse funding opportunities
• NSF funding opportunities are here:  https://new.nsf.gov/funding/opportunities
We accomplish our mission by supporting you.

Send us your proposals.

Tell us about your triumphs.

Become a reviewer.

Talk to our program officers.

https://www.nsf.gov/staff
https://new.nsf.gov/cise