



CISE CAREER Proposal Writing Workshop

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Deputy Assistant Director

Computer and Information Science and Engineering

National Science Foundation



April 29, 2024

Thank
you!

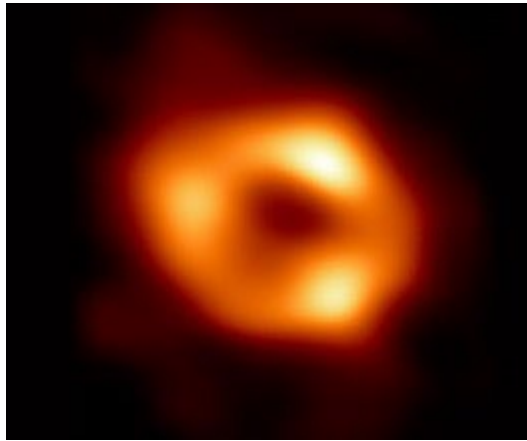
- **Organizers:** Wenjing Lou and the team from Virginia Tech
- **Host:** George Washington University
- **CISE program officers:** Nicholas Goldsmith, Mitra Basu, Almadena Chtchelkanova, Darleen Fisher, Jenny Li, Phil Regalia, Jie Yang

National Science Foundation's Mission

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



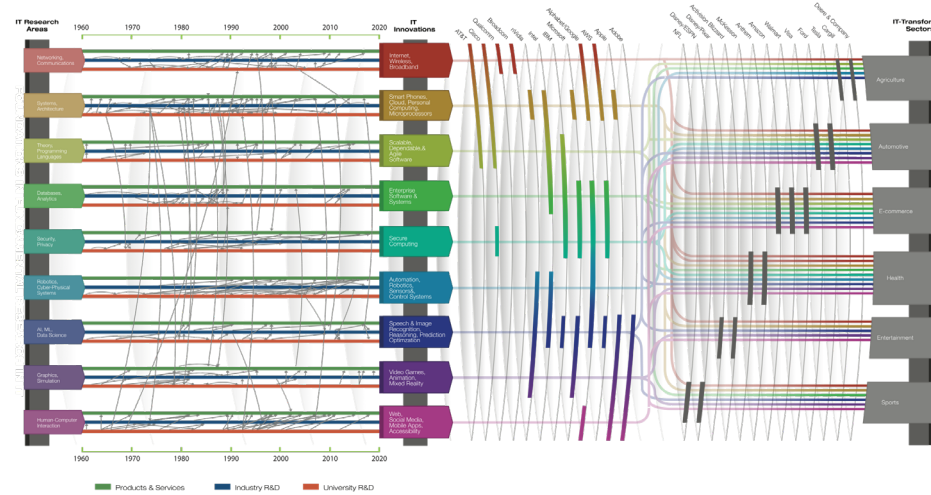
Foundational, Translational, Societal Impacts



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



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

- Computer Systems Research
- Networking Technology and Systems
- Education and Workforce Development

Computer & Network Systems (CNS)

- Human-Centered Computing
- Information Integration and Informatics
- Robust Intelligence

Information & Intelligent Systems (IIS)



Katie Antypas,
Office Director



Amy Walton,
Deputy
Office Director



Ellen
Zegura,
Division
Director



Behrooz
Shirazi,
Deputy
Division
Director



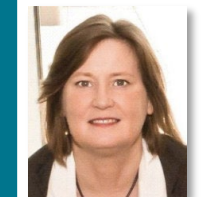
Irina
Dolinskaya,
Acting Division
Director



Siddiq Qidwai,
Acting Deputy
Division
Director



Michael
Littman,
Division
Director



Wendy Nilsen,
Deputy Division
Director



CISE by the Numbers

NSF funds **80%** of federally-funded CS in the US at academic institutions.



\$1,035.9 M
Enacted budget for fiscal year 2023



6,401
Proposals evaluated

29%
Funding rate



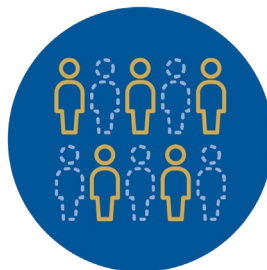
1,847
Awards made



371
Institutions supported



6,647
Grad students



21,623
Individuals from senior researchers to undergrads



48 + D.C. +
1 territory



89
Minority-serving Institutions



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

Cross-cutting programs:

Cyber-Physical Systems

Foundational Research
in Robotics

Secure and Trustworthy
Cyberspace

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

CISE Directorate

- Computer Systems Research
- Networking Technology and Systems
- Education and Workforce Development

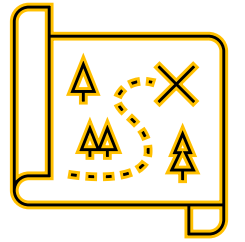
Computer & Network Systems (CNS)

- Human-Centered Computing
- Information Integration and Informatics
- Robust Intelligence

Information & Intelligent Systems (IIS)



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>



