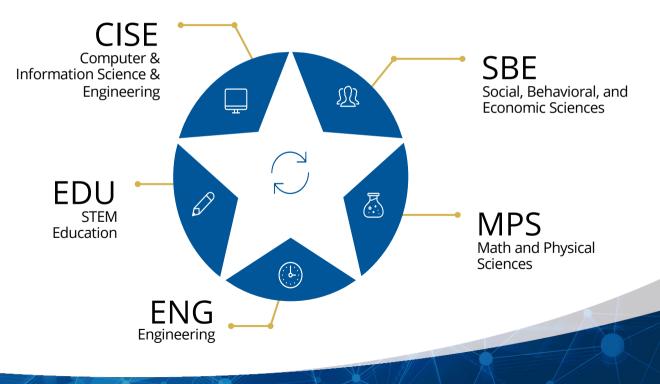


National Science Foundation SaTC program

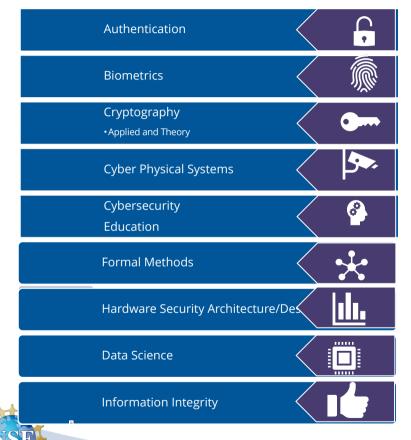
Dr. Cliff Wang, NSF

SECURE AND TRUSTWORTHY CYBERSPACE (SaTC): One of NSF's Largest Research Programs

SaTC approaches security and privacy as a socio-technical problem involving deep scientific and engineering problems as well as vulnerabilities that arise from human behaviors



>1000 Active Awards Across Broad Topic Areas



Language-Based Security
Mathematics and Statistics
Networking & Intrusion Detection • Wired and Wireless
Privacy • Applied and Theory
Social, Behavioral and Economic Sciences
Software
Systems
Transition to Practice (TTP)
Usability and Human Interaction

SaTC Core Solocitation- NSF 24-504

https://www.nsf.gov/pubs/2024/nsf24504/nsf24504.htm

	CORE:	Transition to Practice (TTP):	Education (EDU):	
	Focus: Fundamental research in one/more of CISE/SBE/MPS/ENG	Focus: transitioning existing research results to practice	Focus: cybersecurity education	
	 Funding levels: Small: Up to 3 years, \$600K Medium: Up to 4 years, \$1.2M 	 Funding levels: Small: Up to 3 years, \$600K Medium: Up to 4 years, \$1.2M 	 Funding levels: Up to 3 years, \$400K If include both computer scientist and education 	
	No submission deadlines for Small or Medium	No submission deadlines	specialist, up to \$500K No submission deadlines	
	Open to universities & non- profits; PI may submit 2 proposals/FY	Open to universities & non- profits; PI may submit 1 proposal/FY	Open to universities & non- profits; PI may submit 1	
	Int'l collaboration programs with Israel, Ireland, Canada, Germany, India, Czechia	Medium MUST include BPC plan at time of submission	proposal/FY	
	Medium MUST include BPC plan at time of submission			

SaTC International Partnerships

1) US-Canada collaborations through Natural Sciences and Engineering Research Council of Canada (NSERC). https://www.nsf.gov/pubs/2022/nsf22031/nsf22031.jsp

2) US-Czech collaborations through Czech Research Foundation (GACR). https://www.nsf.gov/pubs/2023/nsf23094/nsf23094.jsp

3) US-Germany collaborations through German Research Foundation (DFG). https://www.nsf.gov/pubs/2023/nsf23051/nsf23051.jsp

4) US-Republic of Ireland-Northern Ireland collaborationshttps://www.nsf.gov/pubs/2020/nsf20064/nsf20064.jsp

5) US-Israel collaborations through the US-Israel Binational Science Foundation (BSF). https://www.nsf.gov/pubs/2020/nsf20094/nsf20094.jsp

6) US-India collaborations through the Department of Science and Technology (DST) of India. https://www.nsf.gov/pubs/2023/nsf23114/nsf23114.jsp

BROADENING PARTICIPATION IN COMPUTING (Medium proposals only)

- <u>BPC aim to address the underrepresentation of many groups in CISE</u> relative to their participation in postsecondary education (<u>https://ncses.nsf.gov/pubs/nsb20223/data</u>).
 Broadening participation will require a range of measures, including institutional programs and activities as well as culture changes across colleges, departments, classes, and research groups.
- <u>Each Medium project with a lead or non-lead organization</u> (department, school, or institute) that primarily carries out research and education in computer science, computer engineering, information science, and/or other closely-related field, <u>must include a BPC</u> plăn
- **BPC plan should answer positively to the following questions:**
 - 1. Goal and Context: Does the plan describe a goal and the data from your institution(s) or local community that justifies that goal?
 - 2. Intended population(s): Does the plan identify the characteristics of participants, including school level?
 - 3. Strategy: Does the plan describe activities that address the stated goal(s) and intended population(s)?
 - 4. Measurement: Is there a plan to measure the outcome(s) of the activities?
 - 5. PI Engagement: Is there a clear role for each PI and co-PI? Does the plan describe how the PI is prepared (or will prepare or collaborate) to do the proposed work?

SaTC DCLs for special targets

- Inviting Proposals Related to Open-Source Software Security to the Secure and Trustworthy Cyberspace Program (23-149)
- Supporting Cybersecurity & Privacy Education and Workforce Development (23-091): 202 2-pagers, 53 invitations, 21 EAGER awards, 6 supplements
- Enabling Secure and Trustworthy Cyberspace (SaTC) CISE-SBE Interdisciplinary Collaborations (21-122 & 3 previous): 163 2-pagers, 38 invitations, 10 EAGER awards
- Request for Information on Future Directions for the NSF Secure & Trustworthy Cyberspace Program (23-063)
- Inviting Proposals Related to Information Integrity to the Secure and Trustworthy Cyberspace Program (22-050)
- Cybersecurity Education in the Age of Artificial Intelligence (20-072)

SaTC Aspiring PI Workshop

The workshop will provide participants with opportunities to meet and network with NSF mentors and PDs in addition to attend panels and sessions covering topics such as:

- Crafting a Research Proposal Narrative
- Research Project Development
- Presentation Strategies
- The Panel Review Process
- Mock-Review Modules
- Overview of Common Proposal Mistakes
- ...and more!



2024 Aspiring PI meeting: May, Chicago

Look out for the call for participation announcement coming out in near future.

SaTC Interdisciplinary Staff

- **Cindy Bethel:** Usability (CISE/IIS)
- **Dan Cosley:** Usability, data analytics (CISE/IIS)
- Jeremy Epstein: Cluster lead, systems, biometrics (CISE/CNS)
- **Sol Greenspan**: Software security (CISE/CCF)
- Tim Hodges: Math (MPS/DMS)
- Karen Karavanic: Systems (CISE/CNS)
- **Sara Kiesler**: Privacy, social and behavioral sciences, usability, information authenticity (SBE/SES)
- Andrew Pollington: Number theory, theoretical cryptography (MPS/DMS)

- **Phil Regalia**: Information theory, wireless networking, cyber physical systems, cryptography (CISE/CCF)
- Ambareen Siraj: Education, CyberCorps ® SFS, cyber operations (EDU/DGE)
- Anna Squicciarini: Privacy (CISE/CNS)
- **Cliff Wang:** Networking, hardware, transition to practice (CISE/CNS)
- Li Yang: Education, CyberCorps® SFS, cyber operations (EDU/DGE)
- **Qioayan Yu (Expert)**: Hardware security (CISE/CNS)
- ChunSheng (Sam) Xin: Education, CyberCorps® SFS, cyber operations (EDU/DGE)
- Administrative Staff (CISE/CNS): Richard Sheehey, Dasia Holmes, Pam Shaw