### **NSF Program Updates**



#### Susanne Wetzel Program Director, SaTC

CAE Symposium 2018

# Secure and Trustworthy Cyberspace (SaTC)

NSF's flagship research program for **inter-disciplinary**, foundational research on security and privacy,

Over \$450M in funding since 2012

Over 1000 currently active research grants



# Broad Topics supported in SaTC

- Authentication
- Biometrics
- Cryptography, Applied
- Cryptography, Theory
- Cyber-Physical Systems
- Cybersecurity Education
- Data Science
- Formal Methods
- Hardware Security
  Architecture
- Hardware Security Design
- Information Authenticity
- Intrusion Detection

- Language-based Security
- Mathematics and Statistics
- Networking, Wired
- Networking, Wireless
- Privacy, Applied
- Privacy, Theory
- Social, Behavioral and Economic Sciences
- Software
- Systems
- Transition to Practice
- Usability and Human Interaction



# SaTC FY2019 Activities

• New SaTC solicitation NSF 18-572

- Three designations: CORE (CISE, SBE, MPS, ENG), Transition to Practice (TTP) and Cybersecurity Education (EDU)
- Initiated no-deadlines pilot to increase quality
- Reduced proposal limit from 5 (2 CORE, 2 TTP, and 1 EDU) to 3 (1 CORE, 1 TTP, 1 EDU)
- Will not do Frontier scale projects (\$5-10M) in FY19
- Continue MEDIUM, SMALL, EDU, and TTP without change
- Joint program with SRC (STARSS) on hardware security has been discontinued
- **Dear Colleague Letter 18-109**: Enabling Early-Stage Secure and Trustworthy Cyberspace (SaTC) Socio-Technical Interdisciplinary Collaborations
- SaTC will continue to fund CAREER/CRII early career awards, REU for undergraduates, and workshops and conference travel



## Scholarship for Service (SFS)

#### CyberCorps<sup>®</sup> Scholarship For Service (SFS)







### NDAA 2018 – Community College Cyber Pilot Program (C3P)

Not later than 1 year after the date of enactment (...) shall develop and implement a pilot program at not more than 10, but at least 5, community colleges **to provide scholarships to eligible students who—** 

(1) are pursuing associate degrees or specialized program certifications in the field of cybersecurity; and

(2)(A) have bachelor's degrees; or (B) are veterans of the Armed Forces.





### C3P Program

"In response to the NDAA18, NSF will accept proposals to develop, implement, support, and evaluate C3P projects in this pilot effort. This new category of CyberCorps® SFS scholars will satisfy criteria and receive the benefits consistent with the CyberCorps® SFS program requirements (<u>https://www.nsf.gov/funding/pgm\_summ.jsp?pims\_id=504991</u>) and must work after graduation for a Federal, State, Local, or Tribal Government organization in a position related to cybersecurity for a period equal to the length of the scholarship."



## First C3P Program Awards

- <u>Collaborative Research: Community College Cyber Pilot Program (C3P)</u>, Corrinne Sande, Whatcom Community College, Washington; Tony Coulson, California State University San Bernardino + 4 partners TBD (\$4,349,869)
- <u>SAC Cyber Service Scholarship Program</u>, Kim Muschalek, San Antonio College, Texas (**\$568,831**)
- <u>Collaborative Research: Community College Accelerated CyberCorps Pilot Program, Kyle Jones,</u> Sinclair Community College, Ohio; Michael Qaissaunee, Brookdale Community College, New Jersey; John Sands, Moraine Valley Community College, Illinois (\$2,314,645)

NSF's CyberCorps<sup>®</sup>: Scholarship for Service (SFS), Advanced Technological Education (ATE), and NSF Scholarships in STEM (S-STEM) programs are co-funding the awards.



### New NSF SFS Solicitation 19-521

#### CyberCorps® Scholarship for Service (SFS)

**Defending America's Cyberspace** 

#### **PROGRAM SOLICITATION**

NSF 19-521

#### **REPLACES DOCUMENT(S):** NSF 17-556



Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):

February 04, 2019

July 31, 2019

July 31, 2020

#### **IMPORTANT INFORMATION AND REVISION NOTES**

- · The Capacity Track has been removed. Proposals addressing cybersecurity education capacity may be submitted via the Education Designation in the NSF-wide Secure and Trustworthy Cyberspace (SaTC-EDU) program.
- Scholarship terms have been updated to comply with the recent amendments to 15 U.S. Code § 7442.
- The undergraduate stipend was increased by \$2,500.

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 19-1), which is effective for proposals submitted, or due, on or after January 28, 2019.

