



WASHINGTON STATE
UNIVERSITY

Scholarship and Fellowship Opportunities for Cybersecurity Interested Students

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Agenda



WSU CyberCorps Scholarship for Service (SFS) Program



WSU NSF IRES Program in Cybersecurity and AI in
Collaboration with Linkoping University in Sweden



Cyber Service Academy (CSA)

What is CyberCorps: Scholarship for Service (SFS)?



Created in 2000 under the Federal Cyber Service Training and Education Initiative



Today, the SFS program is managed by the National science Foundation (NSF) in collaboration with the Office of Personnel Management (OPM) and the Department of Homeland Security (DHS) Cybersecurity and Infrastructure Security Agency (CISA)



Relevant Acts:

Cybersecurity Enhancement Act of 2014

National Defense Authorization Acts for 2018 and 2021

CHIPS and Science Act of 2022

What is CyberCorps: Scholarship for Service (SFS)?



The SFS program educates high-caliber scholarship recipients from institutions with strong existing academic program in cybersecurity



SFS scholars receive full scholarship support for up to three years



Upon completing their education, recipients are obliged to work for a Federal, State, Local, Tribal, or Territorial Government agency for a period equivalent to the length of the scholarship



OPM administers the program by providing placement assistance, coordinating recipient compliance, and tracking recipients through all phases of the program

Goals of the SFS Program



Enhance the security of critical information infrastructure



Increase national capacity of educating IT specialists in cybersecurity disciplines



Produce new entrants into the Government cybersecurity workforce



Increase national R&D capabilities in cybersecurity



Strengthen partnerships between institutions of higher learning and relevant employment sectors

Benefits

- Up to three years of scholarship support for undergraduate and graduate education including the following:
 - Tuition paid by the program
 - Stipend of \$27,000 per year for undergraduate students
 - Stipend of \$37,000 per year for graduate students
 - Professional allowance of up to \$6,000 for travel to annual SFS Job Fair and other travel, certifications, etc
- Access to SFS-specific virtual and in-person job fairs in Washington DC

Commitment

- **Before graduating**
 - Maintain full-time enrollment
 - Maintain good academic standing
 - Respond to requests for information from the SFS Program Office
 - E.g., surveys, questions regarding program participation
 - Complete at least one internship opportunity within government
 - Participate in experiential learning opportunities offered by the WSU SFS program
 - Begin searching for employment to meet the post-graduation service requirement

Commitment

- **After graduating:**
 - Work full-time in qualifying position at an approved agency for a period commensurate with the length of the scholarship
 - Provide documentation to the SFS Program Office and WSU verifying employment annually
 - Ensure contact information is up to date in your SFS profile
 - Complete periodic surveys as requested by the SFS Program Office
 - Respond to all requests from SFS Program Office and WSU for information concerning the SFS program and your status

Examples of Qualifying Agencies

Federal Executive Agency

Congress, including any agency, entity, office, or commission established in the legislative branch

An interstate agency

State, local, or Tribal government

State, local, or Tribal government-affiliated non-profit that is critical infrastructure as defined in section 1016(e) of the USA Patriot Act

Eligibility Requirement

- Must be a citizen or lawful permanent resident of the United States
- In addition, a student must be one of the following:
 - A full-time student within two years of completing their bachelor's or three years completing their master's degree in a coherent, formal program focused on cybersecurity
 - A research-based doctoral student
- Prospective students will also need to meet any other university-specific eligibility requirements **and** meet the criteria for Federal employment, including the ability to obtain a security clearance, if required

WSU SFS Program

- Aims to recruit and train around **20 undergraduate and 6 graduate students** over the course of five-years
- Provide excellent academic experience to SFS scholars through *integrated research, career mentoring, experiential learning, and internship* opportunities
- First cohort began in **Fall 2025**
- **Applications for Fall 2026 are being accepted (priority deadline: Mar. 31, 2026)**
- To apply visit: <https://cyser.wsu.edu/sfs/apply/>

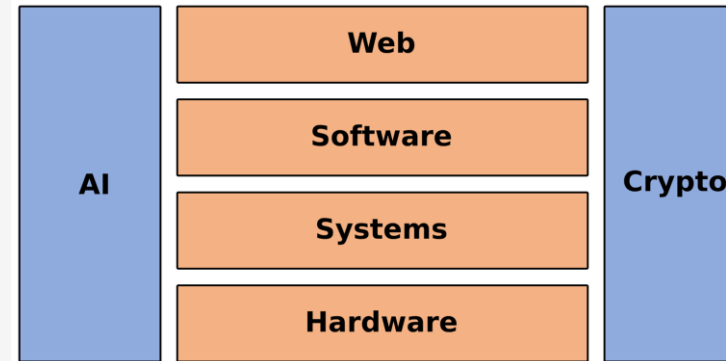
	Year 1	Year 2	Year 3	Year 4	Year 5
Cohort 1	4 undergrads, 1 grad				
Cohort 2		6 undergrads, 2 grads			
Cohort 3			6 undergrads, 2 grads		
Cohort 4				4 undergrads, 1 grad	
	Total: 20 undergrads, 6 grads				

Eligibility Requirements for WSU SFS Program

- Must be a citizen or lawful permanent resident of the United States
- Must be a full-time student at WSU with an overall GPA of 3.0 or above and accepted into one of the following undergraduate or graduate programs:
 - **Undergraduate programs**
 - *BS in Cybersecurity*
 - *BS in Computer Science, Computer Engineering, or Software Engineering* and pursuing the coursework requirements for the *CySER CAE-CO Fundamentals certificate*
 - **Graduate programs**
 - *MS or PhD in Computer Science, Software Engineering, or Electrical Engineering* with research focused on cybersecurity and a program of study that includes *at least four 400 or 500-level cybersecurity courses*
- Must commit to working for a Federal, State, Local, Tribal, or Territorial Government agency after graduation for as many years as you received scholarship through the SFS program

WSU SFS Program Research Areas and Team

1. Artificial Intelligence and Security
2. Cyber-Physical Systems Security
3. Cryptography and Post-Quantum Security
4. Software Supply Chain Security
5. Hardware Security
6. Web Security



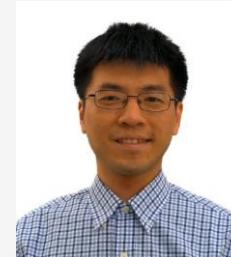
Assefaw Gebremedhin
(PI)



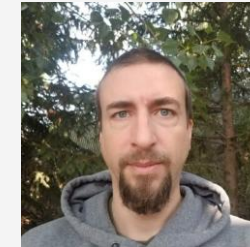
Jana Doppa
(Co-PI)



Monowar Hasan
(Co-PI)



Feng-Hao Liu
(Co-PI)



James Crabb
(Program Coordinator)

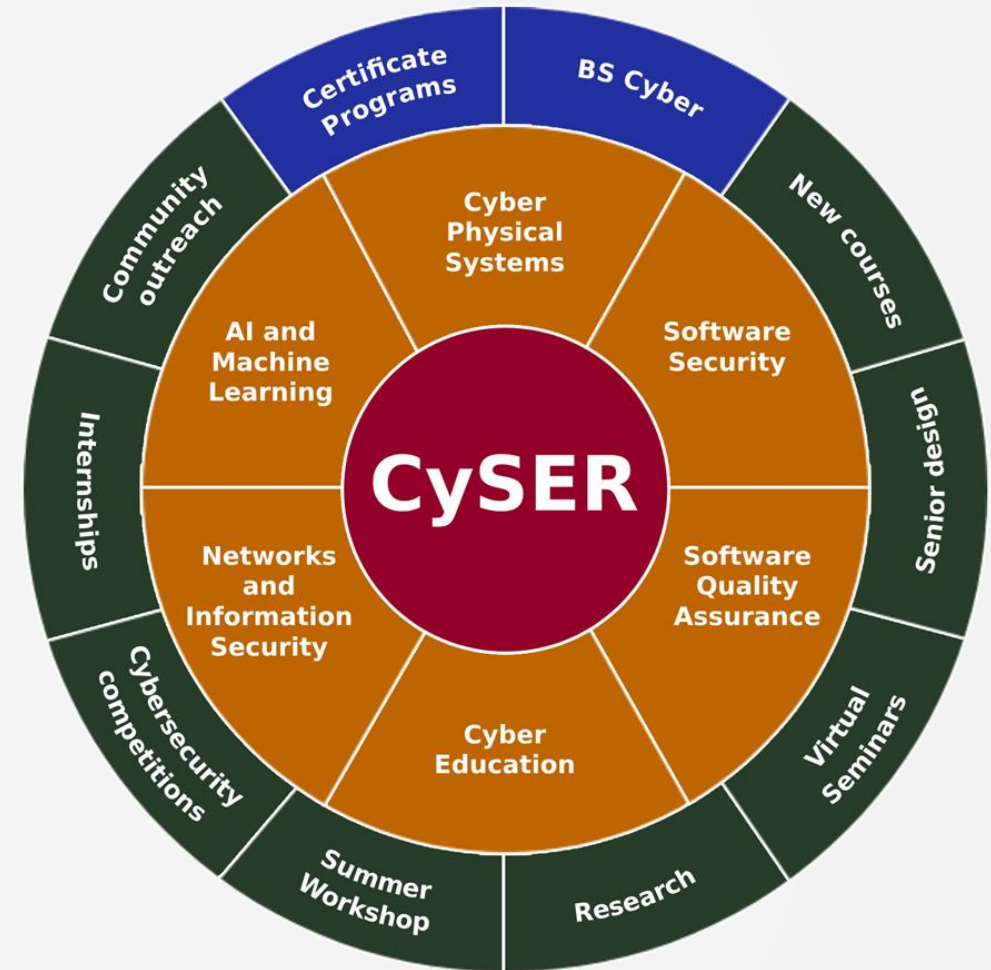


Foundations of our SFS Program

- **VICEROY Institute for Cybersecurity Education and Research (CySER)**
 - Established in June 2021, with support from DoD (OUSD R&E)
- **New BS in Cybersecurity degree program**
 - Launched in Fall 2023, with support from Washington state government
- **Existing broader institutional capacity and support**
 - Five thriving BS programs at EECS
 - Computer Sci., Software Eng., *Cybersecurity*, Computer Eng., Electrical Eng.,
 - ABET Accredited (CS, SE, CE, EE)
 - Cybersecurity in preparation for next ABET cycle
 - Strong and growing core cybersecurity faculty
 - Strong interdisciplinary research programs in several areas, including AI, data science, design automation, power engineering, security & privacy, and software engineering
 - Cybersecurity is a key priority area for the university

VICEROY CySER Institute

- Established in June 2021, in the first cycle of the VICEROY program
- VICEROY = Virtual Institutes for Cyber and Electromagnetic Spectrum Research and Employ
- Trains DoD-aligned civilian workforce and ROTC in cybersecurity
- Integrates cybersecurity research and education with professional skills in teamwork, communication, leadership, and lifelong learning
- A strong consortium in the Pacific Northwest for cybersecurity education and research
 - WSU (lead), Montana State University, Univ of Idaho, and Central Washington Univ



CySER Curriculum: Encapsulated via 2 Certificate Offerings at WSU



CySER CAE-CO Fundamentals

- Targeted for BS in Computer Science (or Software Eng.) students interested in specializing in cybersecurity
- Or students in the BS in Cybersecurity program
- Led by the School of EECS

CySER Basic

- Targeted for non-CS majors interested in cybersecurity
- Led by the Department of MISE in the College of Business

CySER CAE-CO Fundamentals Certificate



Required coursework

- CptS 327: Fundamentals of Cybersecurity and Cryptography
- CptS 427: Cybersecurity of Wireless and Distributed Systems
- CptS 428: Software Security and Software Reverse Eng.
- CptS 421 and 423 (Senior Design) with cybersecurity-related project
- **Four** electives from a pool of relevant CptS and EE courses

**Internship
(VICEROY MAVEN or Industry)**

Participation in mentored research

Summer workshop

Bi-weekly seminars

Foreign language recommended

(Examples: Russian, Chinese, Korean, Arabic, Persian)

BS in Cybersecurity Program at WSU



Independent degree program (major)



Focuses on cyber operations



Emphasizes hands-on coursework, experiential learning



Credits Required: 120 (4-year)

74 Comp Sci/Cyber, 16 Math/Stat,
30 General



First two years like BS in Comp Sci; last two years heavy on cyber courses

Cybersecurity Courses in the New Degree

Required

- CptS 327: Fundamentals of Cybersecurity and Cryptography
- CptS 427: Cybersecurity of Wireless and Distributed Systems
- CptS 428: Software Security and Software Reverse Engineering
- CptS 455: Introduction to Computer Networks and Security
- CptS 439: Cybersecurity of Critical Infrastructure Systems
- CptS 426: Hardware Security and Hardware Reverse Engineering
- CptS 432: Cybersecurity Capstone Project

Elective

- CptS 425: Cyber Forensics and Anti-Forensics
- CptS 424: Cyber Law, Ethics, Rights, and Policies
- CptS 429: Virtualization and Offensive Cyber Operations
- CptS 431: Security Analytics and DevSecOps (*first offering: Fall 2026*)

Courses and CAE-CO KUs

Cybersecurity course (each 3 credits)	KUs covered
CPTS 327: Fundamentals of Cyber Security and Cryptography	M7, M8, O4, O13
CPTS 427: Cyber Security of Wireless and Distributed Systems	M5, O2
CPTS 428/528: Software Security and Reverse Engineering	M2, M9, O8
CPTS 455: Introduction to Computer Networks and Security	M4, O11
CPTS 439: Cybersecurity of Critical Infrastructure Systems	O1, O14
CPTS 426: Hardware, Firmware Security and Reverse Engineering	M1, O1, O10, O17
CPTS 424: Cyber Law, Ethics, Rights, and Policies	M10
CPTS 425: Cyber Forensics and Anti-forensics	O11
CPTS 429: Virtualization and Offensive Cyber Operations	O3, O16
CPTS 431: Security Analytics and DevSecOps	O5, O8
CPTS 432: Cybersecurity Capstone Project	O9

Offered CptS 424 for first time in Fall 2025.

Co-developed and co-taught by a CS professor (Dr. Gebremedhin) and a Philosophy professor specializing in AI ethics (Dr. Conklin)

Next offering: Spring 2027

Two other great things happened in 2025!

- WSU got designated as CAE-R (2025-2030)
- WSU received an NSF IRES award for cyber and AI study-and-research abroad program in Sweden's Linköping University (LiU)
 - First cohort went to Sweden in January to spend the entire Spring 2026 there
 - Cohort consists of 4 cybersecurity majors from two campuses of WSU
 - WSU PI team: A. Gebremedhin, M. Elmahallawy, S. Lapin, J. Iannelli





Study and Conduct Cybersecurity & AI Research in Sweden

Available to WSU Students @ Pullman - Tri-Cities - Everett

Pursue this Unique Opportunity

- Join WSU's Sweden Program at Linköping University (LiU) – Now featuring a new focus **on AI-driven Cybersecurity**
- Transform your future through an unrivalled **international experience** fully sponsored by the National Science Foundation (NSF)
- Seize the moment – this is the perfect time in your academic journey to explore global research and cutting-edge tech
- Conduct research at one of Sweden's top universities for **cybersecurity**, with **hands-on** labs, **applied AI**, advanced coursework
- Study at LiU in classes taught in English with **No tuition** fees
- Earn **transferable credits** that count toward your **WSU degree** — no graduation delays!
- Receive a **\$12,000** Fellowship to fund a full semester of study and research in Sweden

Who Can Apply?

- WSU **undergraduates** from Pullman, Tri-Cities, or Everett campuses—with at least two semesters before graduation
- A **GPA of 3.0** or higher
- Cybersecurity, Computer Science, Computer Engineering, Software Engineering, Electrical Engineering, or Data Analytics majors
- US Citizens, Nationals, or Permanent Residents

Requirements

- Resumé
- WSU Transcript
- Motivation Letter
- List of remaining course to graduate
- Contact information of a WSU professor willing to provide a recommendation letter
- Evidence of US citizenship, nationality, or permanent residence

More Information

- WSU-LiU Program: [WSU Europe Program](#)
- WSU Cybersecurity Program: [Cybersecurity at WSU](#)
- LiU's Cybersecurity Program: [Cybersecurity at LiU](#)

Apply By May 1st, 2026

- Fill out this [WSU-LiU Application](#) by May 1, 2026



- Describe there any previous research and / or international experience
- Submit the general [WSU-LiU exchange application](#) also by May 1, 2026

Questions?

Pullman: Dr. Assefaw Gebremedhin
(assefaw.gebremedhin@wsu.edu)

Tri-Cities: Dr. Mohamed Elmahallawy
(mohamed.elmahallawy@wsu.edu)

Everett: Dr. Sergey Lapin
(slapin@wsu.edu)

LiU, Sweden, Travel: Dr. Joseph Iannelli
(joseph.iannelli@wsu.edu)

Department of Defense Cyber Service Academy

- Another federal Scholarship for Service program
- Goals
 - Promote higher education in all disciplines of cyber, providing students with hands-on, real-world opportunities
 - Increase the pipeline of students in the areas of cyber
 - Build stronger education programs in these areas to advance the state of the nation and to grow and expand the pool of qualified candidates for future employment
- Application initiated by student (at DoD CSA website)
- WSU qualifies as an NCAE designated school
- Applications for 2026: now closed. Plan to apply for 2027.
- Website: <https://www.cyber.mil/dod-workforce-innovation-directorate/csa>



Thanks!

Questions

