



National Science Foundation Grant Support for NSF REU SITE on Research and Training Experience for Undergraduates in the area of in the areas of Cybersecurity, Data analytics and Blockchain for securing Big Data and Cyber-physical Systems Missouri University of Science and Technology Department of Computer Science

PURPOSE

The purpose of this NSF REU SITE program is to train a total of 10 undergraduate students, beginning summer of 2025, in the areas in the areas of Cybersecurity, Data analytics and Blockchain for securing Big Data and Cyber-physical Systems

SELECTION CRITERIA

Good academic aptitude supported by GPA scores of 3+, and/or relevant experience. All students must be U.S. citizens or US permanent residents.

Note: Students may join NSF REU program at any level of their B.S. degree. Seniors are not eligible if their degree will be completed by Summer of 2025.

RESEARCH

NSF REU students will conduct research in the Department of Computer Science under the guidance of faculty members supported by the PhD students. REU students will also have access to the laboratories and resources at Missouri S & T. Each student's research project will be determined based on the individual student and his/her background. Possible research project areas include:

- Security and Trustworthiness in Data Driven CPS and IoT (under Dr. Sajal Das)
- IoT Access Control Using Permissioned Blockchain (under Dr. Sanjay Madria)
- Secure and Trustworthy Decision Making in CPS (under Dr. Sajal Das)
- Security, Privacy and Resource Trade-offs In CPS (under Dr. Sanjay Madria)
- Crowd-Audit Platforms to Quantify Biases In ML-based Systems (under Dr. Sid Nadendla)

APPLICATION PROCEDURE

1. Apply using the form available at cs.mst.edu
2. <https://cs.mst.edu/media/academic/cs/documents/undergraduate/NSF-REU-Site-application%202024.pdf>
3. Submit a copy of the application material to the Program Director listed below as PDF.
4. Submit resume and transcripts (PDF)
5. Submit a copy here also <https://etap.nsf.gov/award/2280/opportunity/2740>

CONTACT

Prof. Sanjay Madria
NSF REU SITE Program Director
Missouri University of Science and
Technology
Department of Computer Science
Rolla, MO 65409
E-mail: madrias@mst.edu

STIPEND & BENEFITS

Stipend of up to \$700 per week (for 10 weeks). An additional amount to cover all travel to Rolla, and room and food expenses for dorms will be paid.

Each year the best student judged based on the project will be awarded a TA/RA position if admitted as a PhD Student.

DEADLINES

Submit Application: 15th March, 2025
Informal Acceptance: 25th March, 2025
Final Acceptance from Students: 30th March, 2025.

