

Research Experience for Undergraduates

Software and Data Analytics



May 15 – July 24, 2023



Program Information

Award: Funded by National Science Foundation (NSF), Research Experience for Undergraduates. This is a paid 10-week program, with a \$6000 stipend, and an allowance for housing, meals, and travel.

The sample research projects: The research focus is in Software and Data Analytics. The sample research projects cover open research topics in software and data analytics including, Intelligent Program Update Detection and Automation; Human-Computer Collaborative Dialogue Systems; Using Machine Learning to Estimate Software Development Effort; Understanding Implicit Extension APIs; Machine Learning Algorithms for Biometric Data Analysis; Performance Evaluation of Machine Learning Algorithms. Students participating in these projects will learn about topics including code recommendation systems, static program analysis, program transformation, classical techniques for classification in machine learning, deep learning, information retrieval, software testing, software maintenance, software repository mining, software quality metrics, cryptocurrencies, and both theoretical and empirical measurements of algorithm performance.

Applicant Qualifications

- US citizen or permanent resident.
- GPA of 3.0 or higher.
- Current undergraduate students in software engineering, computer science, or related majors.
- Underrepresented groups are strongly encouraged to apply, as well as those from academic institutions with limited research opportunities in STEM.

Required Documents: An unofficial transcript, letter of reference, and personal statement should be sent to tabrizim@ecu.edu to complete your application. The letter of reference should be sent directly by the writer.

Application Deadline: March 1, 2023

Apply Online: <http://bit.ly/3eojCff>

Contact Information

Dr. Nasseh Tabrizi (PI)	Dr. Nic Herndon
Department of Computer Science	Department of Computer Science
C-112 Science and Tech Building	C-108 Science and Tech Building
East Carolina University	East Carolina University
Greenville, NC 27858	Greenville, NC 27858
Email: tabrizim@ecu.edu Phone: 252-4122053	Email: herndon19@ecu.edu