EXERCISE - Explore Emerging Computing in Science and Engineering

May 31 - August 8, 2023 (tentatively)

Application Deadline: March 15, 2023
Apply Online:
http://faculty.salisbury.edu/~ealu/REU/Apllication.html

The NSF REU EXERCISE is an interdisciplinary project that explores emerging paradigms in parallel computing with data and compute-intensive applications in the fields of science and engineering. Students will apply emerging parallel computing models including GPU computing with NVIDIA CUDA and MapReduce computing on Amazon EC2 to tackle data and compute-intensive problems such as network anomaly detection and medical image reconstruction.

Highlights
- Ten-week summer undergraduate research program
- $6,000 stipends and $600 travel allowance
- On-campus housing and meal allowance provided
- Field trips and social activities
- Research opportunities in emerging computing with applications in science and engineering
- Experienced faculty mentors from Computer Science, Mathematics, and Engineering

Eligibility
United States citizens or permanent residents
A STEM (Science, Technology, Engineering, and Mathematics) major or interested in STEM
GPA 3.0 or above
Programming knowledge in either of C, C++, Java, Python, R, or MATLAB
Non-graduating undergraduate students (still enrolled as undergraduate student in Fall 2023)

Host Institution: Salisbury University, a Maryland University with National Distinction, located on the historic Eastern Shore, is about 30 miles from the Atlantic beaches and easy travel to Washington DC, Baltimore, Philadelphia, and New York City.

For more information, visit online: http://faculty.salisbury.edu/~ealu/REU/REU.html
or contact Dr. Enyue (Annie) Lu: Email: ealu@salisbury.edu Phone: (410) 543-6144

The REU EXERCISE project is funded by the National Science Foundation with additional support from Salisbury University, The University of Maryland Eastern Shore, The Johns Hopkins University, The University of Maryland College Park, and The University of Maryland Baltimore County.