

**NATIONAL SCIENCE FOUNDATION (NSF)
RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU) SITE**



***EXERCISE* - Explore Emerging Computing in Science and Engineering**

May 27 - August 4, 2020 (tentatively)

Application Deadline: March 10, 2020

Application and Information Packet Download Online:

<http://faculty.salisbury.edu/~ealu/REU/ApplicationPacket.pdf>

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, Computer Engineering, Mathematics, and Electrical Engineering

Eligibility

United States citizens or permanent residents

A STEM (Science, Technology, Engineering, and Mathematics) major

Completing at least sophomore year of study

GPA 3.0 or above

Programming knowledge in either of C, C++, Java, Python, or MATLAB

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

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