



NSF Research Experiences for Undergraduates (REU)
Computational Modeling and Simulation in
Applied Sciences
Middle Tennessee State Univ. (MTSU), Murfreesboro, TN
Summer 2019: June 2—July 31



- ◆ Are you an undergraduate biology, physics, computer science, or mathematics major interested in improving your coding skills while addressing computational research problems in the sciences?
- ◆ Would you like to spend the summer at a dynamic university, working with faculty members and meeting others who share your interests?
- ◆ Would you like to get paid to enhance your resume and edge out other applicants with your advanced skills?

If so, you should apply for a National Science Foundation supported summer Research Experiences for Undergraduates (REU) program focused on computational modeling in applied sciences.

As a participant in this REU you will complete a specific computational research project in collaboration with an MTSU faculty mentor in one of the following areas:

- ◆ molecular dynamics modeling
- ◆ epidemiology
- ◆ acoustics
- ◆ cellular biology
- ◆ materials science
- ◆ optics

Meanwhile, a Python boot camp will take your computer programming skills to the next level. Professional development seminars will prepare you for the intricacies of a research-oriented career, and you will build a professional network while participating in fun social activities.

Applicants must be:

- ◆ US citizens, US nationals, or US permanent residents, and
- ◆ Undergraduate freshmen, sophomores, juniors, or seniors.

Support: Participants will receive a stipend (\$4,000) plus housing, subsistence, and financial assistance for travel to and from Murfreesboro.

For full consideration, online applications must be received by **February 15, 2019**. The online application is available on the REU website at: <https://www.cs.mtsu.edu/~coms-reu/>

About MTSU: Murfreesboro is located 30 miles southeast of Nashville, Tennessee. We have 81 undergraduate majors and 19,000 undergraduate students. MTSU has growing graduate programs, including a Ph.D. in Computational Science.

Contact Information: For more information about this REU, visit <https://www.cs.mtsu.edu/~coms-reu> or contact Dr. Wandu Ding at wding@mtsu.edu

