Undergraduate Merit Scholar Research Opportunities – Water, Health and Applied Microbiology (WHAM) Laboratory
4 Positions- Summer 2018

Dr. Murphy is a faculty member in the Division of Environmental Health within the College of Public Health. Her research focuses on understanding the link between drinking water quality, recreational water quality and public health.

She is looking for 4 students to work in her lab this summer to help with water sample collection and analysis in the laboratory as well as exposure assessments on the creeks in Philadelphia interviewing people regarding their recreational activities. She may also need some support with conducting literature reviews and writing up lab protocols. Students working with Dr. Murphy will develop laboratory skills in the analysis of water samples for microorganisms and chemical water quality parameters. They will learn how to use advanced laboratory equipment and develop valuable skills that can be used to work in a laboratory in the future. In addition, students will get the opportunity to do some fieldwork by sampling river water around Philadelphia.

Students with previous laboratory experience and drivers licenses are preferred, but these are not requirements.

Anticipated tasks are as follows:

- Travel to field sites to collect water samples from rivers around Philadelphia
- Preparation of sample bottles and laboratory equipment for microbial water quality analysis
- Conducting water quality analyses in the lab
- Conducting surveys with recreators on the creeks in Philadelphia
- Searching and reviewing journal articles for literature reviews
- Writing up lab protocols
- Preparation of journal manuscripts (if students are interested in publishing)

Any questions regarding the opportunities can be sent to Dr. Murphy directly: heather.murphy@temple.edu