

EBS/CMOP Undergraduate Intern Mentoring Opportunity

Project Title:

Environmental Fate and Effects of Contaminants

Project Description:

In surface water and groundwater, contaminants undergo transformations that transform them into more or less harmful products. Understanding these processes is one of the major challenges in environmental science and engineering. The intern will participate in research on the fate, effects, and/or remediation of contaminants in the environment. They will participate in laboratory studies of these processes, and possibly field work or computer modeling. Methods that will be used may include spectroscopy, chromatography, and microscopy.

Outcomes/Broader Impact:

Eventually, the results should contribute to the scientific basis for regulation and remediation of environmental contamination by contaminants.

Timeline:

<i>Week</i>	<i>Activities</i>	<i>Deliverables</i>
1	Basic training on safety, lab protocols, analytical methods.	
2	Develop and validate analytical methods.	
3	Preliminary application of methods to contaminant degradation.	
4	Refine methods based on preliminary results.	
5	Synthesize and present interim results.	Presentation
6-9	Further application and refinement of the methodology.	
10	Synthesize and present final results.	Report