DEPARTMENT OF ENGINEERING EDUCATION
COLLEGE OF ENGINEERING AND APPLIED SCIENCE

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE WOMEN

APPLICATION DEADLINE: 03/01/2019

PROJECT TITLE: Engineering Education Research in Diversity and Inclusion

Dr. Teri J. Murphy, Professor, Department of Engineering Education, 895 Rhodes, Cincinnati, OH, 45221, teri.murphy@uc.edu

Dr. Teri Reed, Assistant Vice President of Research Development, Office of Research, and Professor, Department of Chemical & Environmental Engineering, 862 Engineering Research Center, Cincinnati, OH, 45221, teri.reed@uc.edu, 513.556.3191

Project Description

The research project investigates the relative effectiveness of strategies intended to improve the environment for women and other students from populations that tend to encounter, as primary receivers or as bystanders, gender-based misconduct in experiential learning situations (e.g., co-op, REU). The UC faculty researchers collaborate with a multi-disciplinary team comprised of researchers in engineering education, sociology, student affairs, women’s studies, and other related disciplines, including researchers at other institutions.

They administer a survey to undergraduate students in the College of Engineering & Applied Science and other UC colleges to determine the prevalence and kinds of gender-based misconduct in experiential learning situations. The survey is an adaptation of the Administrator Researcher Campus Climate Collaborative (ARC3) survey developed by a multi-organization team comprised of researchers, students, campus advocates, campus law enforcement, and other professionals.

They study the effectiveness several intervention strategies intended to address gender-based misconduct in experiential learning situations (e.g., bystander intervention training).

The student researcher will be involved in all aspects of this project, including participating in team meetings (at least once per week), conducting data analysis (quantitative and/or qualitative), engaging multi-disciplinary research literature, interacting with experts in this field at other institutions as well as those at UC, and contributing to decisions about the deployment and study of effective
strategies.