

**Ohio University Training Project Grant
Annual Report
July 1, 2014 through June 30, 2015
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Section I

TPG Summary:

This Training Project Grant in Occupational Safety at Ohio University addresses the shortage of well-trained practitioners in a traditionally underserved area of Southeastern Ohio and the Ohio River Valley. The program is run within the Department of Industrial and Systems Engineering (ISE) in the Russ College of Engineering and Technology. Students are enrolled in the MS program in ISE. Key elements of the program include: six core courses, two mandatory internships, two mandatory seminars in writing and research, and participation in plant tours and professional activities. The six core classes are: Human Factors Engineering, Industrial Ergonomics, Occupational Hygiene Laboratory, Occupational Safety and Health Administration, Systems Safety, and Six Sigma. Students then take elective courses to complete their degree requirements in the Russ College, the College of Health Sciences and Professions, or other colleges at Ohio University. A specific academic focus for this project is older workers and advanced data analysis methods. Faculty for the program are well-qualified in this area as well as in the component areas of Occupational Safety research and field practice.

Public Health Relevance:

Demographic changes will necessitate the need for Occupational Safety (OS) Specialists during the next 10 years. Southeastern Ohio is especially underserved in its ability to produce well-trained OS Specialists who can address the relevant needs of local industry. This project will produce well-trained practitioners who will be able to address the OS needs of Ohio and the priorities of NIOSH.

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TPG Web Link: <http://www.ohio.edu/engineering/ise/labs/ergonomics/niosh-tpg-project.cfm>

Section II

Program Highlights of High Impact:

The Ohio University Training Project Grant in Occupational Safety started in 2012 and is currently in its fourth year. Our training program is a two-year program culminating in the students receiving a MS in Industrial and Systems Engineering (with a focused curriculum on Occupational Safety). We believe that our program differentiates itself from others in its curriculum (focused on safety and housed in Industrial and Systems Engineering), and its on-campus and off-campus internships. The PIs meet regularly with an advisory board to ensure the quality of the program.

All students participate in two internships: 1) one with our Department of Safety during their first year, and 2) in industry between year one and year two. This combination of experiences provides the trainees with exposure to various fields within occupational safety and allows them to work with a diverse group of people. In the past, their work on campus helped the safety department cost-justify interventions and provided valuable assistance in data collection. Trainees have had industry internships at the Ohio Bureau of Workers Compensation (BWC), Fairfield Medical Center, Honda Manufacturing, Suncoke, Amsted Rail and Clow Water Systems. Graduates of the program are currently employed in the occupational safety field.

During the school year students are involved in a variety of extra-curricular activities, such as construction tours, plant tours and conferences. During the 2014-2015 school year students attended the University of Cincinnati Pilot Research Symposium, Safety Day at Ohio State University, the BWC Safety Congress, and Safety 2015. They attended plant tours off campus and had monthly safety tours at the construction site for a new dormitory at Ohio University. Students are officers and members of the Ohio University Student Chapter of the ASSE and they hold events and sponsor guest lecturers.

Students are currently focusing their research on a variety of topics. Students have completed research on: injuries in the automotive repair sector in Ohio (with an emphasis on older workers), safety management practices at regional campuses, ergonomic interventions for Ohio University offices, and the development of leading indicators. Current students are working on topics related to advanced data analysis methods for injury analysis, fall safety, the use of lean methodology to improve the procurement of ergonomic office equipment, ergonomic analysis of restroom design, and analysis of software for sit/stand workstations. These projects are within the scope of the expertise of the faculty members, yet are diverse and are related to the students' interests.