

Opportunity Title: Occupational Safety and Health Summer Fellowships - CDC

Opportunity Reference Code: CDC-NIOSH-2016-0063

Organization Centers for Disease Control and Prevention (CDC)

Reference Code CDC-NIOSH-2016-0063

How to Apply A complete application consists of:

- An application
- Transcripts – [Click here for detailed information about acceptable transcripts](#)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional references
- Writing sample describing your interest in occupational safety and health issues and why you make a strong candidate for the fellowship.

All documents must be in English or include an official English translation.

If you have questions, send an email to CDCrpp@orau.org. Please include the reference code for this opportunity in your email.

Application Deadline 4/25/2016 11:59:00 PM Eastern Time Zone

Description Fellowship opportunities are currently available for the Collegiate Leaders in Occupational Safety and Health Program with the National Institute for Occupational Safety and Health (NIOSH) of the Centers for Disease Control and Prevention (CDC).

NIOSH produces new scientific knowledge and provides practical solutions vital to reducing risks of injury and death in traditional industries, such as agriculture, construction, and mining. NIOSH also supports research to predict, prevent, and address emerging problems that arise from dramatic changes in the 21st Century workplace and workforce. NIOSH and its partners support U.S. economic strength and growth by moving research into practice through concrete and practical solutions, recommendations, and interventions for the building of a healthy, safe and capable workforce.

The fellowship opportunities may include projects in the following areas:

1. Evaluation and synthesis of occupational health and safety data to support revision to the NIOSH Pocket Guide, the Occupational Exposure Banding and risk assessment projects.
2. Working with research epidemiologists, industrial hygienists, and health communications specialists on occupational health studies.
3. Preparing length-classified fibers for toxicology studies: The participant will operate cross flow filtration apparatus, optical imaging and statistical analyses of the data.
4. Investigating exposure to isocyanates during application of spray polyurethane foam insulation (SPFI). Participant will assist in a study that seeks to determine the relative strength of several sampling and analytical methodologies and to evaluate both the collection efficiencies and the derivatization efficiencies of the different sampling



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methodologies in the SPFI application environment.

5. Support NIOSH researchers on the development and analysis of data sets for occupational health risk assessment of engineered nanomaterials.

The fellow may be involved in the following team activities:

- Supporting toxicologists, epidemiologists and statisticians on a project to predict worker risks from exposure to industrial chemicals
- Quantitatively assessing risk by reviewing literature, extracting data from the scientific literature and/or public databases, and learning and using quantitative risk assessment software to conduct risk assessment on chemical exposures in the workplace
- Qualitatively assessing risk by evaluating the performance of the newly developed NIOSH occupational exposure banding criteria, evaluate public comments received on the banding criteria and/or develop educational materials to support that project. The participant may also support project officers in conducting statistical analyses of the application of these tools to known workplace hazards
- Supporting research epidemiologists, industrial hygienists, and health communications specialists on occupational health studies by reviewing literature, designing questionnaires, managing data, analyzing data and assisting with manuscript preparation
- Participating in field surveys to collect air, dermal and biological samples from workers in diverse occupational settings, data analysis, report writing, and abstracting data from reports to create exposure databases
- Designing web pages, outreach document development, and marketing research.
- Characterizing samples using optical microscopy, process data with optical imaging software, and conduct data collection, organization and statistical analysis on Excel spreadsheets
- Investigating exposure to isocyanates during application of spray polyurethane foam insulation (SPFI), support an activity that seeks to determine the relative strength of several sampling and analytical methodologies and to evaluate both the collection efficiencies and the derivatization efficiencies of the different sampling methodologies in the SPFI application environment

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and CDC. The initial appointments are for one summer, but may be renewed upon recommendation of CDC contingent on the availability of funds. The participants will receive a monthly stipend commensurate with education level and experience. Proof of health insurance is required for






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participation in this program. The appointments are full-time at CDC in the Cincinnati, Ohio, area. Participants do not become employees of CDC or the program administrator, and there are no fringe benefits paid.

Summer programs are 10 weeks in duration, June 6 - August 12, 2016.

- Qualifications**
- Undergraduate and graduate students enrolled in occupational health, industrial hygiene, general or environmental public health, epidemiology, engineering, chemistry, mathematics, statistics, acoustics and physics, or a related field at an accredited U.S. college or university are encouraged to apply. Undergraduate students must be enrolled in upper-level (junior or senior) courses. Individuals who have received a bachelor's degree in one of these fields within the past two years are also eligible to apply.
 - Knowledge and experience analyzing data from animal or human studies, surveys, questionnaires, literature resources, or databases is desired
 - Two internships have more specific qualifications of laboratory experience – wet laboratory experience and chemistry lab experience (typically acquired in chemistry, chemical engineering, or mechanical engineering lab courses)
 - For the health communications position, strong Spanish language skills are desirable.
 - Training in cross-flow filtration and optical imaging software will be provided.

- Eligibility Requirements**
- **Degree:** Bachelor's Degree or Master's Degree received within the last 24 month(s).
 - **Discipline(s):**
 - **Chemistry and Materials Sciences** (2 )
 - **Engineering** (3 )
 - **Life Health and Medical Sciences** (5 )
 - **Mathematics and Statistics** (2 )
 - **Physics** (2 )