



The **Division of Field Studies and Engineering (DFSE)** is part of the **National Institute for Occupational Safety and Health (NIOSH)**. DFSE seeks to prevent work-related illness through a multidisciplinary program including worksite evaluations, surveillance, research, and the development of engineering controls and interventions. DFSE has four main research areas:

1. Using occupational health surveillance and informatics methods to study trends in worker exposures, illnesses, and injuries. This includes
 - Developing worker illness, injury, and hazard-tracking systems and informatics tools.
 - Promoting and supporting industry and occupation information collection in surveys and records.
2. Characterizing and reducing workplace health hazards for workplaces, agencies, and other stakeholders. This includes
 - Evaluating fire fighters' work-related deaths caused by medical conditions.
www.cdc.gov/niosh/fire
 - Conducting assessments of occupational exposure to nanomaterials and advanced materials.
www.cdc.gov/niosh/topics/nanotech/field
3. Conducting health and exposure field research in working populations. This includes
 - Determining the incidence and prevalence of disease in workers and their children.
 - Determining the nature and extent of acute and chronic responses to potentially hazardous agents at work.
4. Conducting research to characterize and control worker exposures to hazards. This includes
 - Developing and evaluating engineering controls to reduce workplace exposures to hazards.
 - Preventing and reducing the occurrence of

occupational hearing loss and musculoskeletal disorders.

DFSE staff also often participate in disaster and emergency response activities.

Technology & Product Highlights

Health Hazard Evaluation (HHE) Reports

HHE reports provide recommendations on ways to reduce or eliminate identified hazards in the workplace.
www.cdc.gov/niosh/hhe



Surveillance and Informatics Tools

Worker Health Charts (WHC) is a data visualization website that provides information about worker health.
wwwn.cdc.gov/Niosh-whc



NIOSH Industry and Occupation Computerized Coding System (NIOCCS) translates occupation and industry text data to standardized Census, NAICS and SOC codes.
wwwn.cdc.gov/nioccs3



Engineering Controls Database

This database is a repository of NIOSH research findings on engineering control technology.
www.cdc.gov/niosh/engcontrols/ece

Mobile Device Apps

The NIOSH Sound Level Meter App measures sound levels in the workplace and provides noise exposure limits. www.cdc.gov/niosh/topics/noise/app

The NIOSH Lifting Equation App calculates the overall risk index for single and multiple manual lifting tasks.
www.cdc.gov/niosh/topics/ergonomics/nlecalc



OUR SAFETY AND HEALTH RESEARCH AREAS



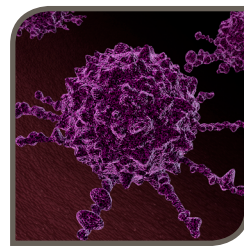
Prevention of Work-related Illness



Exposure Assessment



Worksite Evaluations



Cancer and Other Chronic Diseases



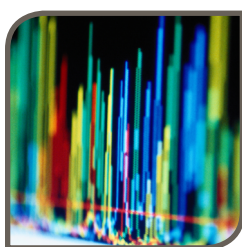
Hearing Loss Prevention



Reproductive Health



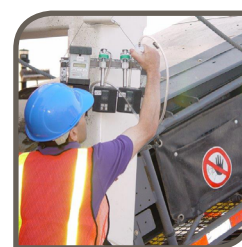
Surveillance of Work-related Exposures



Informatics and Data Visualization



Ergonomics



Engineering and Control Technology

Centers and Programs

Center for Workers' Compensation Studies

This program uses workers' compensation data and systems to improve workplace safety and health.

www.cdc.gov/niosh/topics/workercomp/cwcs

Exposure Assessment Program

This program develops new methods and tools to measure exposures. www.cdc.gov/niosh/programs/exap

Cancer, Reproductive, Cardiovascular, and Other Chronic Disease Prevention Program

This program seeks to prevent and reduce a variety of work-related diseases and conditions.

www.cdc.gov/niosh/programs/crcd

Hearing Loss Prevention Program

This program provides leadership to reduce occupational hearing loss. [@NIOSHNoise](http://www.cdc.gov/niosh/programs/hlp)

Musculoskeletal Health Cross-Sector Program

This program seeks to protect workers from musculoskeletal disorders by identifying risks and improving interventions.

www.cdc.gov/niosh/topics/ergonomics

National Fire Fighter Registry Program

This program encourages the voluntary registry of fire fighters to determine the cancer incidence and trends among fire fighters. www.cdc.gov/niosh/firefighters/health

OUR STAFF

DFSE has 170 full-time positions and has labs and offices in Cincinnati, Ohio.

Staff have experience in the following areas:

Audiometry | Behavioral Psychology | Biostatistics | Engineering | Environmental Health | Epidemiology | Ergonomics | Health Communication | Health Services Research | Industrial Hygiene | Infectious/Internal Medicine | Information Technology | Industry and Occupation Data Coding | Occupational Health Nursing | Occupational Medicine | Operations Support | Veterinary Medicine