



The **Division of Applied Research and Technology (DART)** is a part of the **National Institute for Occupational Safety and Health (NIOSH)**. DART focuses on protecting workers' safety and health by leading applied research and technology development in exposure sciences, engineering controls and intervention, and human and social factors. This includes

- Create innovative yet practical strategies and technologies to eliminate workplace hazards and control exposures
- Recommend designs, interventions, and best practices, and providing education and guidance to protect workers
- Work with partners in industry, labor, trade associations, professional organizations, and academia to implement solutions to reduce occupational exposures

Technology & Product Highlights

NIOSH Manual of Analytical Methods (NMAM)

NMAM is a collection of methods for sampling and analysis of contaminants in workplace air, on workplace surfaces, and in the blood and urine of workers who are occupationally exposed. www.cdc.gov/niosh/nmam

Engineering Controls Database

This database is a repository of NIOSH information on engineering control technology. www.cdc.gov/niosh/engcontrols/ecd

Lifting Equation Calculator

This tool calculates the overall risk index for single and multiple manual lifting tasks. www.cdc.gov/niosh/topics/ergonomics/nlecalc.html

Sound Level Meter App

This tool measures sound levels in the workplace and provides noise exposure limits to help reduce occupational noise-induced hearing loss. www.cdc.gov/niosh/topics/noise/app.html

Alert on Hazardous Drugs and Hazardous Drugs List

This Alert increases awareness among health care workers and their employers about the health risks posed by working with hazardous drugs and provides them with measures for protecting their health. www.cdc.gov/niosh/docs/2004-165

NIOSH Training for Nurses on Shift Work and Long Hours

This online training program educates nurses about the health and safety risks associated with shift work and long work hours, and provides strategies to prevent workplace fatigue. www.cdc.gov/niosh/work-hour-training-for-nurses

Quality of Work-Life Survey

This survey gathers information on the quality of American work-life. It measures on-the-job factors that may influence worker safety and health such as workload, job stress, and role conflict. www.cdc.gov/niosh/topics/stress/qwlquest.html

Elements of Ergonomic Programs Primer

This primer provides information for designing an effective ergonomics program to prevent work-related musculoskeletal disorders. www.cdc.gov/niosh/topics/ergonomics/ergoprimer

Stress...At Work Document

This document provides information about the causes of stress at work and outlines steps that can be taken to prevent job stress. www.cdc.gov/niosh/docs/99-101



OUR SAFETY AND HEALTH RESEARCH AREAS



Sampling and Analytical Methods



Biological Monitoring



Aerosol Science



Engineering and Control Technology



Ergonomics



Work Organization and Stress-related Disorders



Hearing Loss Prevention

Centers and Programs

Engineering Controls Program

This program seeks to protect workers by developing engineering interventions to eliminate or more safely work around hazards. www.cdc.gov/niosh/programs/eng

Exposure Assessment Program

Develops and uses effective exposure assessment strategies and tools to prevent work-related illness and injury. www.cdc.gov/niosh/programs/exap

Center for Direct Reading and Sensor Technology

This center coordinates research and develops recommendations on the use of new technologies in occupational safety and health. www.cdc.gov/niosh/topics/drst

Hearing Loss Prevention Program

This program provides leadership to reduce the prevalence of occupational hearing loss. www.cdc.gov/niosh/programs/hlp
@NIOSHNoise

Musculoskeletal Health Cross-Sector Program

This program seeks to protect workers from musculoskeletal disorders, helps management mitigate related risks and liabilities, and helps practitioners improve the efficacy of workplace interventions. www.cdc.gov/niosh/topics/ergonomics

Healthy Work Design and Well-Being Program

This program seeks to protect and advance worker safety, health, and well-being by improving the design of work, management practices, and the physical and psychosocial work environment. www.cdc.gov/niosh/programs/hwd

OUR STAFF

DART has approximately 120 full time positions and has offices and labs in Cincinnati, Ohio.

Staff have experience in the following areas:

Biomonitoring and Health Assessment: Biologists | Health Scientists | Chemists | Laboratory Technicians

Chemical Exposure and Monitoring: Research Chemists | Physical Scientists

Engineering and Physical Hazards: Biomedical/Chemical/Electrical/General/Industrial/Mechanical Engineers | Audiologists | Industrial Hygienists

Organizational Science and Human Factors: Research Psychologists | Health Scientists | Information Technology Specialists | Industrial Hygienists | Industrial Engineers