

Life of an OEHS Professional at an Academic Medical Center

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DukeHealth

Duke UNIVERSITY



Occupational and Environmental Safety Office

Quick Background: Duke University Health System and Duke University

- Duke University Health System:
 - Duke University Hospital: 1062 beds, Duke Regional Hospital: 388, Duke Raleigh Hospital: 204
 - Patient service area of approx. 1.94 million people in NC
 - 67,000 inpatient stays and ~5 million outpatient visits in FY23
- Duke University:
 - Approx. 6,500 undergraduates; 11,000 graduates and professional students
 - Active biomedical research presence, including:
 - Multiple Biosafety Level (BSL) 3 laboratories
 - 600 research groups
 - >330 BSL 2 Labs
 - >450 labs that now have “Particularly Hazardous Substances”
 - >1000 IACUC hazardous agent reviews for IACUC research protocols





OESO Mission Statement

OESO is committed to supporting the Duke University's mission of excellence in patient care, research, and teaching. In support of this mission, OESO ensures that the environment is in balance with all regulatory requirements, relevant "community standards" and Institutional resources. This balance is accomplished by identifying hazardous conditions, developing appropriate control measures, implementing controls through specialized training and monitoring the effectiveness of the controls.





Occupational and Environmental Safety Office

Evolution of OESO, 1982

- New Medical Center Environmental Safety and Hospital Epidemiology Office
 - One Director
 - ½-time Industrial Hygienist
 - Four Infection Control Nurses
- Medical Center Fire and Safety
- Campus Fire and Safety
- Radiation Safety





Occupational and Environmental Safety Office

Evolution of OESO, 1990's

- Med Ctr Fire and Safety Merged into OESO
 - Chemical waste management concerns
- 1993 Campus Fire and Safety Office Added
- 1994 Radiation Safety Merged into OESO
 - Accountability to administration
 - Clear reporting lines





Evolution of OESO, 2000's

- Serve the Entire Institution
 - Academic Campus
 - Duke University School of Medicine and Duke University Health System
 - Duke University Hospital
- Eight Specialized Divisions
 - Great expertise in all classes of hazards





Occupational and Environmental Safety Office

Administration Division

- OESO HR Issues
- Financial Management
- Information Management
- Safety Training
 - Also support other training program
 - Animal care and use, HICS, HIPAA, etc.





Occupational and Environmental Safety Office

Safety Training

- Mandatory Orientation
- Annual Update Training
- Training is “Hazard” Specific
 - Based on an Exposure Determination
 - Clinical (patient care) faculty
 - Basic research faculty
 - Additional “special” hazard requirements
- Addresses All Regulatory and Accreditation Requirements





Biological Safety Division

- Bloodborne Pathogens
 - Patient Care and Research Environments
- Tuberculosis
- Recombinant DNA Research
- Select Agent Registry/Management
- Biosecurity
- Dual Use Research of Concern and Pathogens with Enhanced Pandemic Potential (DURC/PEPP)





Occupational and Environmental Safety Office

Fire Safety Division

- Oversight of Fire and Life Safety Systems
- Interface with City Fire Marshal
- Fire Safety Inspection/Drills
- Construction Plan Review
- Special Events/Housing





Occupational and Environmental Safety Office

Environmental Programs Division

- Hazardous Chemical Waste Management
- Radioactive Waste Management
- Air Toxics
- Underground & Aboveground Storage Tanks
- Spill Response
- Resource Conservation/Sustainability





Occupational and Environmental Safety Office

Ergonomics Division

- Computer Work Station Evaluations
- Materials Handling
- Facility Design
- Furniture Selection/Purchase
- Accommodation of Injured Workers





Occupational Hygiene and Safety Division

- Industrial Hygiene Programs
- Asbestos and Lead
- Indoor Air Quality
- PPE
- General Safety
- Coordinates OESO's Construction Plan Review
 - Chemical/ventilation safety
 - Fall protection
 - Other hazards/concerns





Occupational and Environmental Safety Office

Radiation Safety Division

- Manage All Radioactive Materials and Sources
- Oversees Multiple Radiation Licenses
- Support for Patient Care Environment, Laboratory/Research Environment
 - X-ray, Laser, Irradiators, etc.





Occupational and Environmental Safety Office

Laboratory Safety Division

- Coordinates the programs for recognizing, evaluating and controlling health and safety hazards in the laboratory environment.
- Collaborates extensively with the other Divisions within OESO to provide guidance for lab personnel who handle or who could potentially be exposed to hazards in the laboratory.
- Develops policies and training programs that are based on regulatory requirements or current safety guidelines.





Occupational and Environmental Safety Office

Community Hospital and Clinic Safety Division

- Develops, organizes, directs, and monitors activities that minimize occupational health and safety risks and assure compliance with applicable regulations and accreditation bodies for Duke Raleigh Hospital, Duke Regional Hospital, and associated clinics





Occupational and Environmental Safety Office







WWW.SAFETY.DUKE.EDU







- Primary Safety Resource
 - Access to all OESO personnel
 - Online policies and procedures
 - Online training and training information
 - Links to other safety resources
 - Online registry of “Select Agents”





Occupational and Environmental Safety Office

DIVISIONS	
 BIOLOGICAL SAFETY	Bloodborne Pathogens Institutional BioSafety Committee (IBC) Recombinant DNA/Viral Vectors
 ENVIRONMENTAL PROGRAMS	Regulated Waste Safety Audits
 ERGONOMICS	Select Agents & Biological Toxins
 FIRE & LIFE SAFETY	Shipment of Biological Materials
 OCCUPATIONAL HYGIENE & SAFETY	Tuberculosis & Other Airborne Pathogens
 RADIATION SAFETY	Biological Safety Staff Directory

DIVISIONS	
 BIOLOGICAL SAFETY	Hazardous Waste Programs
 ENVIRONMENTAL PROGRAMS	Environmental Compliance Programs General Information & Updates Spill Response Environmental Programs Staff Directory
 ERGONOMICS	
 FIRE & LIFE SAFETY	
 OCCUPATIONAL HYGIENE & SAFETY	
 RADIATION SAFETY	









Occupational and Environmental Safety Office







DIVISIONS	
BIOLOGICAL SAFETY	Construction Guidelines
ENVIRONMENTAL PROGRAMS	Computer Ergonomics
ERGONOMICS	Laboratory Ergonomics
FIRE & LIFE SAFETY	Lifting and Material Handling
OCCUPATIONAL HYGIENE & SAFETY	Safe Patient Handling and Mobility (SPHM)
RADIATION SAFETY	Stretches and Exercises
	Ergonomic Resources
	Ergonomics Staff Directory

DIVISIONS	
BIOLOGICAL SAFETY	Campus Fire Safety Right to Know Act
ENVIRONMENTAL PROGRAMS	Fire Drill Program
ERGONOMICS	Fire Prevention
FIRE & LIFE SAFETY	General Information and Links
OCCUPATIONAL HYGIENE & SAFETY	Hot Work Permit Program
RADIATION SAFETY	Operating Instructions and Policies
	Site Specific Fire Plans
	Fire and Life Safety Staff Directory



Occupational and Environmental Safety Office

DIVISIONS	Asbestos & Lead	Chemical Hygiene
 BIOLOGICAL SAFETY	Confined Space	General Safety
 ENVIRONMENTAL PROGRAMS	Hazard Communication	Hearing Conservation
 ERGONOMICS	Indoor Air Quality	Lockout-Tagout
 FIRE & LIFE SAFETY	OSHA Log Summaries	Particularly Hazardous Substances
 OCCUPATIONAL HYGIENE & SAFETY	Personal Protective Equipment	Powered Industrial Trucks
 RADIATION SAFETY	Reproductive Health	Respiratory Protection
	Safe Use of Nanomaterials	Safety Data Sheet (SDS) Resources
	Occupational Hygiene and Safety Staff Directory	

DIVISIONS	Emergencies
 BIOLOGICAL SAFETY	Radiation Safety Training Requirements
 ENVIRONMENTAL PROGRAMS	Radiation Safety Staff Directory
 ERGONOMICS	Report your Radioactive Material Inventory
 FIRE & LIFE SAFETY	Request a Radioactive Waste Pickup
 OCCUPATIONAL HYGIENE & SAFETY	Clinical and Research X-ray Machines
 RADIATION SAFETY	Personnel Dosimetry
	Clinical and Research Lasers
	For New Authorized Users: All Radiation Programs
	Radiation Safety Committee/IRB
	Duke Radiation Dosimetry Laboratory
	Graduate Medical Health Physics Education
	Site Navigation Page



Like a Small City

- Police
- Housekeeping
- Maintenance
- Housing
- Daycare
- Helipad
- Art Museum
- Health care
- Dining
- Labs
- Classrooms
- Athletic facilities
- Gardens
- Libraries



Asbestos





Floods





Mold





Animal Research



https://www.freepik.com/free-vector/grasshopper-mouse-cartoon-style-isolated-white-background_21305687.htm#fromView=keyword&page=1&position=8&uuid=6d89ffb6-55e7-4d3e-8860-013b42606a73&query=Mouse+Clipart





Operating Rooms





Compressed Gas Cylinder Storage





Chemical Storage





Cryogenics



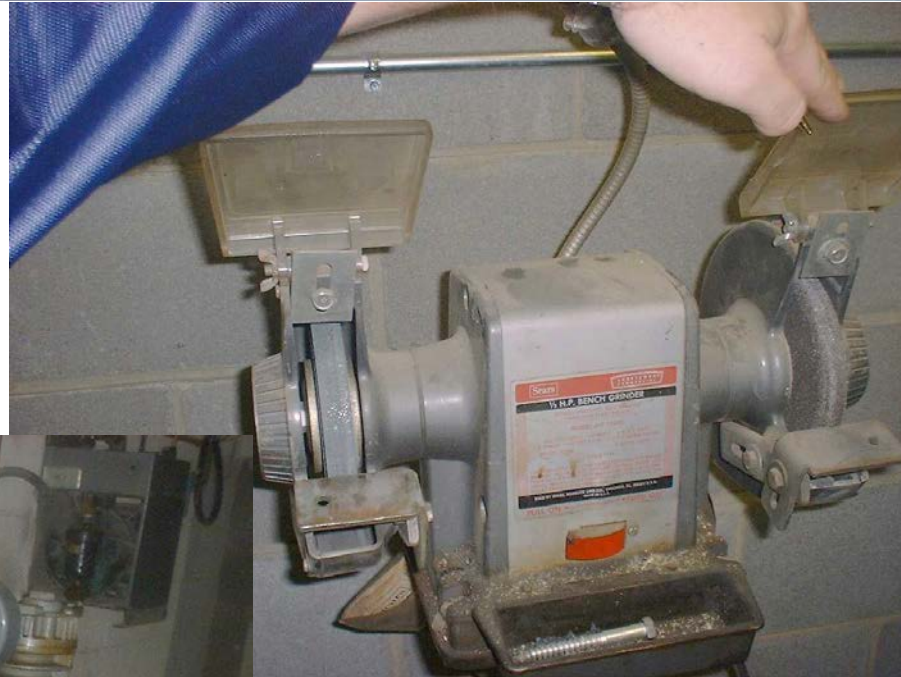


Kitchens





Machine Guarding





Transportation





Confined Spaces





Refrigerants



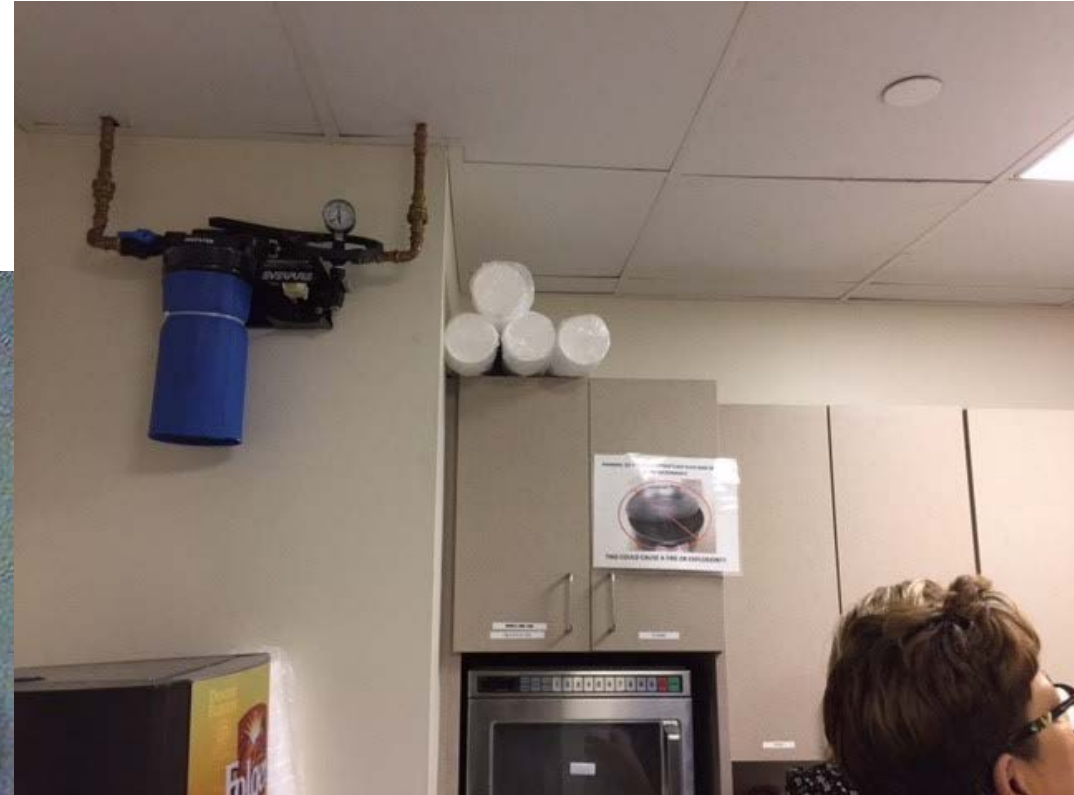


Construction



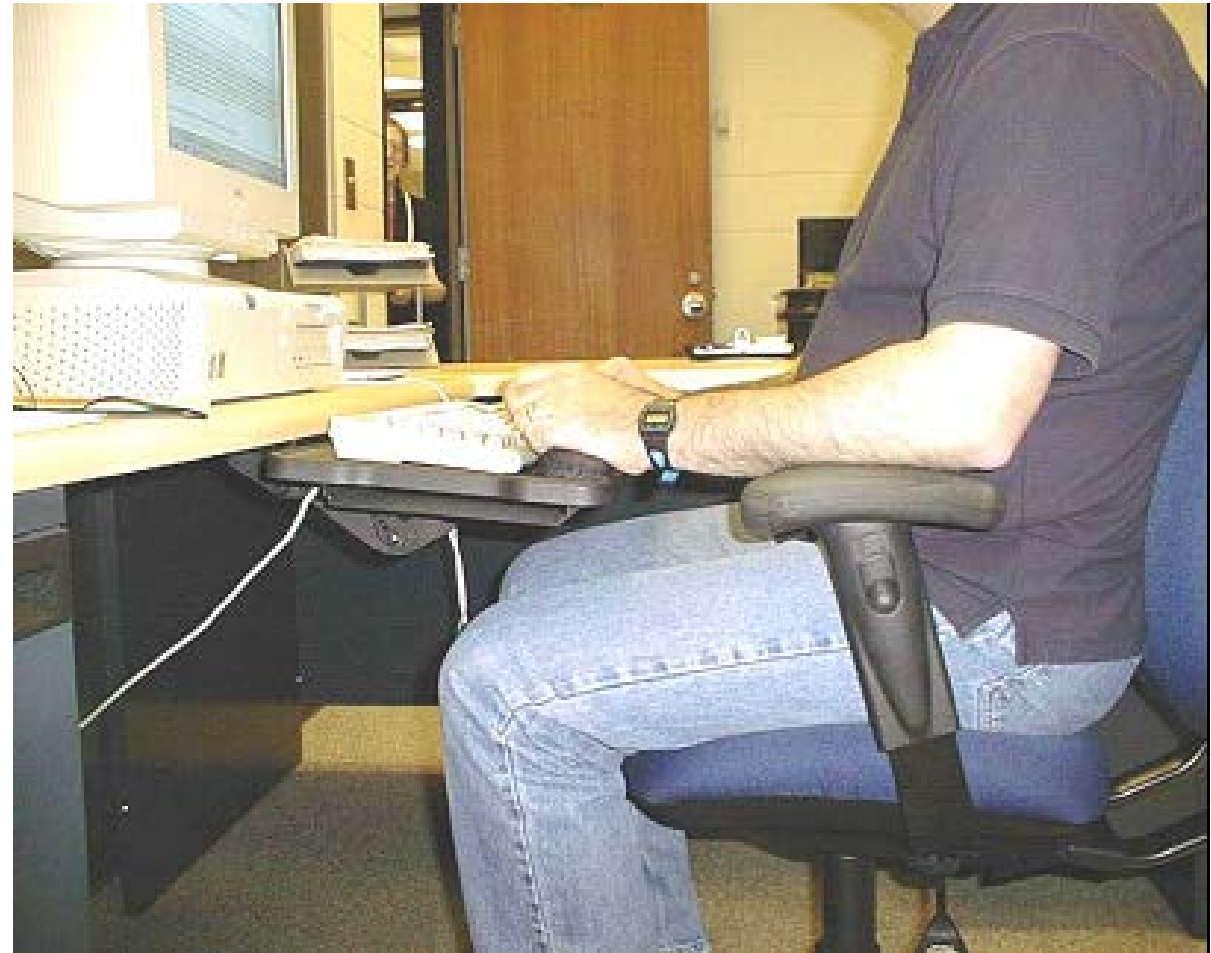
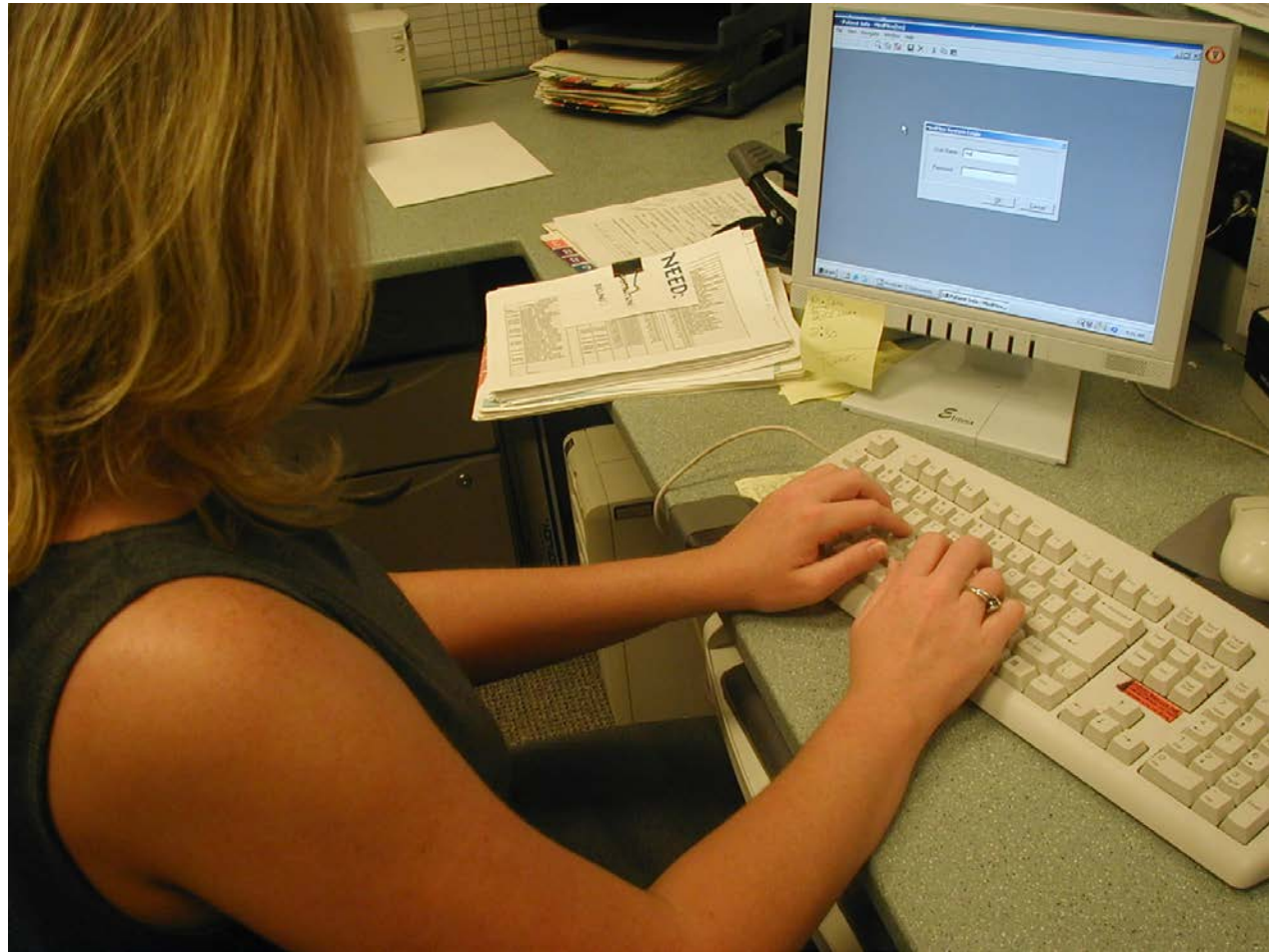


Offices





Office Ergonomics





Emergency Management

Duke

Emergency Management

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Questions?

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