Role of the EHS Department

• The main functions of the EHS Department are:
  – to protect public health
    • to protect the health and safety of NJIT’s faculty, students, staff, and visitors
  – to comply with regulations and guidelines
    • to comply with occupational health and safety guidelines and regulations
    • to comply with environmental stewardship regulations
  – to assist with emergency response
  – to offer advice and guidance to the university community
    (to become a resource for the university)
Development of a Comprehensive EHS Program

Some of the main activities of the EHS Department include:

- **Training**
  - Lab Safety Training (RTK, Chemical Hygiene, RCRA)
  - Biological Safety and Bloodborne Pathogens
  - LASER Safety Training
  - Radiation Safety Training
  - Shop Safety Training

- **Safety Program Development**
  - Chemical Hygiene Guide
  - Biosafety Manual
  - Laser Safety Manual
  - Hazard Communication Program

- **Development of Partnerships**
Laboratory Safety - EHS Regulations

OSHA: The Lab Standard, Bloodborne Pathogens Standard, Respiratory Protection, Hazard Communication, Worker Protection

NJ DOH, DEP, DOL: NJ Worker and Community Right to Know

EPA/NJ DEP: RCRA (Hazardous Waste Management), Clean Air Act, Clean Water Act, TOSCA, FIFRA, EPCRA, CERCLA, SARA

CDC/NIH: Biosafety Guidelines, Restricted Agents

DOT: Transport of Infectious and/or Hazardous Materials

NJ DEP: Radioactive Materials

USDA: Plant and Animal Pathogens, Genetically Engineered Plants, Laboratory Animal Husbandry, Import/Export

NIH: Recombinant DNA, Animal Care and Use

NJ IT, New Jersey Institute of Technology
Building a “Culture of Safety” is a Shared Responsibility

- **Institution**: convene appropriate committees, institute appropriate policies and procedures, allocate adequate resources, retain necessary vendors…
- **EHS Department**: provide the necessary training, tools, support, guidance required to ensure that research staff…
- **Academic Department**: provide oversight, supervision, mentoring, support, funding, guidance…
- **Faculty Mentor**: overall responsibility for day-to-day laboratory/shop activities, submit protocols, conduct “hands on training”…
- **Laboratory/Shop Worker**: attend mandated training, follow written protocols, be cognizant of potential hazards, be respectful of facilities and fellow lab workers…
<table>
<thead>
<tr>
<th>College/Administrative Unit</th>
<th>Department/School</th>
<th>Environmental Health and Safety Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newark College of Engineering</td>
<td>Biomedical Engineering</td>
<td>Department Representative: James Haorah, Associate Professor, BME Safety Chair</td>
</tr>
<tr>
<td></td>
<td>Chem, Bio, Pharm Engineering</td>
<td>Department Representative: Lisa Axe, Professor, Interim Chair</td>
</tr>
<tr>
<td></td>
<td>Chem, Bio, Pharm Engineering</td>
<td>Department Representative: Shawn Yetman, Lab Manager</td>
</tr>
<tr>
<td></td>
<td>Civil and Environmental Engineering</td>
<td>Department Representative: Stephen J. George, Director of Labs for Education</td>
</tr>
<tr>
<td></td>
<td>Electrical and Computer Engineering</td>
<td>Department Representative: Byron Chen, Director of ECE Labs</td>
</tr>
<tr>
<td></td>
<td>Engineering Technology/NCE Office of the Dean</td>
<td>Department Representative: Daniel Brateris, Director of Experimental Learning</td>
</tr>
<tr>
<td></td>
<td>NCE Office of the Dean</td>
<td>Department Representative: Aristides Chavez, Laboratory Specialist for Fabrication and Manufacturing</td>
</tr>
<tr>
<td>York Center</td>
<td>Multi-Disciplinary</td>
<td>Department Representative: Helen Gramcko, Director of Operations</td>
</tr>
<tr>
<td></td>
<td>Chem and Environmental Science</td>
<td>Department Representative: Jeong Seop Shim, Lab Chemist, Material Characterization Lab</td>
</tr>
<tr>
<td></td>
<td>Chem and Environmental Science</td>
<td>Department Representative: Kevin Belfield, Professor, Dean CSLA</td>
</tr>
<tr>
<td></td>
<td>Physics</td>
<td>Department Representative: Chaudhery Mustansar, Lab and Academic Coordinator</td>
</tr>
<tr>
<td></td>
<td>Federated Department of Biological Sciences</td>
<td>Department Representative: Farzan Nadim, Professor of Neurobiology</td>
</tr>
<tr>
<td></td>
<td>Theatre Arts</td>
<td>Department Representative: Richard Garber, Director</td>
</tr>
<tr>
<td></td>
<td>Art and Design</td>
<td>Department Representative: Darius Sollohub, Associate Professor</td>
</tr>
</tbody>
</table>

II. Administrative Departments

<table>
<thead>
<tr>
<th>REDCO</th>
<th>Public Safety</th>
<th>Department Representative: Joseph Marswillo, Chief</th>
</tr>
</thead>
<tbody>
<tr>
<td>REDCO</td>
<td>Security Systems</td>
<td>Department Representative: Robert Gjini, AVP</td>
</tr>
<tr>
<td>REDCO</td>
<td>Facilities Services</td>
<td>Department Representative: Ronald Martucci, AVP</td>
</tr>
<tr>
<td>REDCO</td>
<td>Environmental Health and Safety</td>
<td>Department Representative: Mitchell Gayer, Director</td>
</tr>
<tr>
<td>REDCO</td>
<td>Environmental Health and Safety</td>
<td>Department Representative: Payam Ghanbari, EHS Coordinator</td>
</tr>
<tr>
<td>REDCO</td>
<td>Environmental Health and Safety</td>
<td>Department Representative: Noelle Screen-Reddick, EHS Coordinator</td>
</tr>
<tr>
<td>Finance</td>
<td>Risk Management</td>
<td>Department Representative: Verne Hahn, Director</td>
</tr>
<tr>
<td>Human Resources</td>
<td>HR - Benefits</td>
<td>Department Representative: Danielle Mason, Assoc. Director, Benefits</td>
</tr>
</tbody>
</table>

III. Union Representation

<table>
<thead>
<tr>
<th>AFSCME</th>
<th>Union Representative: William Araujo</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSA/AAUP</td>
<td>Senior Staff Representative: Michelle Tellefsen</td>
</tr>
</tbody>
</table>

IV. Student Representative
## EHS Training and Protocol Review

<table>
<thead>
<tr>
<th>Year</th>
<th># Sessions</th>
<th># Students</th>
<th># Protocols</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab Safety Training (Chem Hygiene, RTK, RCRA)</td>
<td>27</td>
<td>556</td>
<td>11</td>
</tr>
<tr>
<td>(SOPs for working with hazardous chemicals)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological Safety and BBP Training</td>
<td>7</td>
<td>94</td>
<td>8</td>
</tr>
<tr>
<td>(Registration Document for Biohazards - microorganisms, r-DNA, human derived materials)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-College and Undergraduate Programs</td>
<td>6</td>
<td>119</td>
<td>83</td>
</tr>
<tr>
<td>(Provost’s H.S. Summer Program, Governor's STEM Program and Undergraduate Research Innovation Program)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
University Safety and Environmental Management System (USEMS)
Environmental Management

- Air Emissions
- Indoor Air Quality
- Waste Water
- Storm Water
- Asbestos
- Lead Based Paint
- Drinking Water
- Pesticides
- Polychlorinated Biphenyls (PCB)
- Petroleum Storage Tanks
- Hazardous Materials and Petroleum Spill Prevention and Control - Discharge Prevention Containment and Countermeasure (DPCC) Plan
- Waste Management for Laboratories and Academic Shops
- Regulated Hazardous Wastes - RCRA Contingency Plan
  - Satellite Accumulation Areas
  - Universal Waste Management
  - Biological Waste Management
  - Radiological Waste Management
  - Solid Waste
  - Electronic Waste
- Environmental Due Diligence and Site Assessment
- Worker & Community Right to Know and Hazard Communication

Occupational Safety (Laboratories, Academic Shops, Facility Operations)

- Emergency Action Plan
- Chemical Hygiene Plan
- Asbestos Awareness
- Use of Personal Protective Equipment
- Confined Space
- Bloodborne Pathogens
- Control of Hazardous Energy (Lock Out/Tag Out)
- Respiratory Protection
- Hearing Conservation
- Control Plan for Toxic and Hazardous Substances
  - Formaldehyde Control Plan
  - Lead Control and Awareness Plan
  - Benzene Control Plan
  - Methylene Chloride Control Plan
  - Cadmium Control Plan
  - Asbestos Control Plan
- Welding, Cutting and Burning
- Machine Guarding
- Hand Tolls and Portable Power Tools
- Power Industrial Trucks
- Laser Safety Plan
- Radiation Safety Plan
- Electrical Safety
- Nanotechnology
- Biological Materials
- Onsite Vendor/Contractor EHS
- Ergonomics/ Safe Lifting
NJIT Environmental Health and Safety (EHS) Department

Contact Us:
https://www5.njit.edu/environmentalsafety/
973-596-3059
healthandsafety@njit.edu