

TECHNICAL SPECIALTIES

Environmental, Health and Safety (EHS) auditing; regulatory compliance, program development, risk management, workers' compensation, industrial hygiene and emergency response experience in petrochemical, chemical, biopharmaceutical research and development industries. Manufacturing area experience includes specialty microelectronics, petrochemical facilities, chemical plants and pharmaceutical facilities. Specific H&S services provided to large petrochemical companies, such as ExxonMobil, in areas such as EHS program development, health & safety program evaluation, develop and review tools to prevent and mitigate job hazards, in-the-field auditing, hazardous materials shipping support, incident investigation review, facility/site Health and Safety Plan reviews, Hazardous Waste Operations and Emergency Response training and Loss Prevention System® training.

EXPERIENCE SUMMARY

Twelve years of experience within the EHS/Industrial Hygiene field. Corporate Health & Safety Manager at Roux; Associate Manager of EHS at Regeneron Pharmaceuticals; Safety, Health and Environmental Manager at Cobham Advanced Electronic Solutions.

CREDENTIALS

Bachelor of Science, Health Sciences with a minor in Biology, State University of New York at Cortland, 2008
Master of Science, Environmental & Occupational Health Sciences, Hunter College of The City University of New York, 2014
Certified in the Comprehensive Practice of Industrial Hygiene (CIH) by the American Board of Industrial Hygiene, Inc. Certification Number: 11301
Certified Safety Professional (CSP)
Certification Number: 25256
40 Hour Hazardous Waste Operations and Emergency Response
OSHA #7845: OSHA Recordkeeping Rule
OSHA #2250: Principles of Ergonomics Applied to Work Related Musculoskeletal and Nerve Disorder
OSHA 10-Hour Construction Safety Training
Loss Prevention System® Management Training

PROFESSIONAL AFFILIATIONS

Voting Member, American Conference of Governmental Industrial Hygienists
Member, American Industrial Hygiene Association
Member, American Society of Safety Engineers
Professional development courses include: Auditing, Safety Management, Hazardous Waste Management, Ergonomics, Root Cause Analysis, Clean Air Act, Toxic Chemicals, Industrial Hygiene and Ventilation, Pollution Prevention, Hazardous Materials (DOT),

Loss Prevention System®, and Defensive Driving (Smith Driving System).

KEY PROJECTS

- Providing ongoing Health and Safety support for a major international petroleum company across the United States. Primary role is to provide Corporate Health and Safety support for major petroleum facilities investigation and remediation projects. Some projects have been ongoing for 40+ years with >30 full time staff under NYSDEC oversight. Have provided technical Health and Safety review, HAZOP analysis, risk assessment, and overall safety /compliance expert support for many of the major phases of projects.
- Project lead for Environmental, Health and Safety on design team for \$200-million LEED Gold accredited building and parking structure for major pharmaceutical company's campus expansion. Responsibilities included programming and design of research and development/specialty labs and office space. Assisted with development of Health and Safety Plan with construction management firm. Coordination of EHS activities between construction management firm and landlord for the duration of the project.
- Managed industrial hygiene activities for department including sampling for physical, biological, chemical and radiological materials. Led comprehensive industrial hygiene survey for lead contamination within 100K sq. ft. electronics manufacturing facility. Coordinated scope of work as it related to site cleanup of area of concern and developed and trained personnel on the appropriate work practices handling lead. Led substantial Indoor Air Quality assessments with respect to large scale demolition and renovation projects adjacent to occupied space. Developed and ensured dust mitigation plans were followed throughout demolition and renovations.
- EHS lead for Biosafety Level 3 laboratory, assisted with the design of laboratory space which included engineering controls, access controls and waste management. Developed and implemented Biosafety Level 3 and Bio-security Programs for use of Risk Group 3 agents which included baseline risk assessments for research and development activities involving infectious material. Acted as lead emergency responder to incidents involving the release of infectious material.
- Developed and coordinated decontamination and decommissioning of research and development laboratories which contained biosafety risk group 2 and 3 agents. Decontamination methods were tailored to laboratory specific agents as well as facility components and size.
- Providing ongoing Health and Safety support for a portfolio of petroleum terminals. Primary responsibilities include Corporate Health and Safety support as well as operator qualification support for

compliance with Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration.

- Audit team leader for three paper mill facilities in the US and Canada. Assessed facilities' compliance with federal, state and local environmental, health and safety regulations. For Canadian facilities, assisted in determining compliance with relevant Canadian environmental, health and safety regulations and directives. Audits included on-site post-audit review meetings and the preparation of comprehensive audit findings reports as well as follow-up of action items with the client to ensure compliance was achieved.
- Health and Safety audit team leader for personal care product facility. Assessed facilities' compliance with federal, state and local environmental, health and safety regulations. Audits included on-site post-audit review meetings and the preparation of comprehensive audit findings reports as well as follow-up of action items with the client to ensure compliance was achieved.
- Manage Corporate Environmental Health and Safety Auditing Program for Roux Associates. Assist with the development and implementation of digital audit submissions to streamline auditing process, and to provide real metrics as it relates to field work. Analyze trends and develop action plans to mitigate potential gaps within the organization.
- Manage industrial hygiene projects for our industrial and petroleum clients. Develop sampling strategies for contaminants/hazard of concern which can include chemicals, particulates and noise. Train technical staff on proper sampling strategies on air, surface and dosimetry sampling. Evaluate and assess data as it relates to occupational exposure limits.
- Managed environmental health and safety auditing program for research and development as well as manufacturing facilities. Assisted with the development and implementation of internal auditing software to maintain and compile audit metrics. Provided analysis of audit trends, developed systematic solutions to address non-compliance to further mitigate risks within the facilities.
- Trained over 525 managers, supervisors, and employees at pharmaceutical and electronics manufacturing facilities in Environmental Health and Safety related topics including emergency preparedness, biosafety, radiation safety, OSHA Hazard Communication/Right to Know, Global Harmonization, chemical safety, machine guarding, ergonomics, respiratory protection, confined space entry, laser safety and hearing conservation.
- Provide Corporate Health and Safety support for remediation activities of a 1.43-acre New York State Brownfield site containing chlorinated solvents, heavy metals, and petroleum compounds in soil, soil vapor, and groundwater over one city block in Manhattan, New York. Which included the development of air

monitoring procedures and establishment of site specific action levels for mercury vapors associated with remedial actions of subcontractors.

- Responsible for preparation, review and execution of Health and Safety Plans; Compliance review of field staff and project operations with regards to the safe execution of environmental investigation and remediation projects. Implementation and/or coordination of monthly staff training with regards to HAZWOPER and other safety-related topics necessary to ensure continued safe operations by employees.
- Radiation Safety Officer and Laser Safety Officer for major electronic manufacturer. Managed annual surveys/audits of systems onsite as well as maintained all records as they pertained to occupational exposures.
- Managed industrial hygiene activities for research and development and manufacturing facilities. Developed sampling strategies for chemical, biological and physical hazards which included but not limited to formaldehyde, methylene chloride, acetic acid, ammonia, waste anesthetic gases, beryllium, mercury, lead, total/respirable dust, silica, mold, radioactive isotopes and noise.
- Managed noise dosimetry monitoring associated with facility operations at research and development site as well as performed sound mapping studies to assist in the evaluation of current engineering controls. Evaluated noise sound mapping data to determine whether additional engineering controls would be necessary in addition to adjustments in administrative and PPE upgrades.
- Managed Hazardous Material Operations team for eight years at major pharmaceutical company. Responsible for overall emergency response operations as they related to chemical, biological, and/or radiological release. Including management of the Spill Prevention Control and Countermeasure plan as well as emergency equipment inspections for over 500 pieces of emergency equipment, developed identification and inspection protocol for staff.
- Eight years of experience in management of radioactive isotopes within a research and development setting. Responsible for the security and monitoring of Cesium-137 source including quarterly leak tests and surveying. Performed weekly and monthly surveys of areas which contained radioactive isotopes (i.e. tritium, zirconium-89, phosphorus-32 & 33, thorium, carbon-14, iodine-125.) Managed multiple radioactive waste streams associated with varying degrees of research and development procedures. Assisted with NYS Department of Health License amendments which included surveying and decommissioning of laboratories onsite. Responsible for cleanup activities as needed and when identified during weekly/monthly surveys.

- Managed large scale laboratory relocations, which included decommissioning, decontamination and logistics of laboratory chemicals and biological materials at research and development site. Managed asbestos abatement projects during large scale renovations of research and development spaces. Performed site specific decommissioning activities as they related to laboratory operations.
- Managed physical safety within research and development and manufacturing industries, responsible for overall coordination of facility operations as they related to infrastructure modifications and impacts to EHS standards. Which included the categorization and implementation of lock out/tag out procedures and machine guarding for over 150 pieces of equipment.
- Ten years' experience in Environmental, Health and Safety Program development within the pharmaceutical and electronics manufacturing industries. Notable programs include Biosafety Level 2 & 3 Plans, Biosecurity Plan, Chemical Hygiene Plan, Emergency Preparedness, Confined Space, Powered Industrial Trucks, Gas Sensor Monitoring/Response, Hazard Communication, Hazardous Waste Contingency, HAZMAT Security, Infectious Waste Disposal, Ladder Safety, Laser Safety, Lock Out Tag Out, Personal Protective Equipment, Reproductive Development Health Protection, Safety Compliance Procedure, Safety Shoe Policy, Vivarium Safety Manual, Electrical Safety, Radiation Manual, Fleet Safety, Respiratory Protection, Hot Work and Hoist Safety.
- Managed all capital equipment expenditures and disposal as they related to Environmental, Health and Safety ensuring safety controls were established and equipment disposed of in a manner consistent with federal, state, and local requirements as required.
- Managed ergonomics program as it relates to musculoskeletal disorders, developed and implemented framework for identifying musculoskeletal strain associated with office and research and development work. Implementing controls with proven results indicating overall reduction of strain within study population.