

Malaisamy Ramamoorthy, PhD, CCHO

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Current Position: Manager I and EH&S Officer

Areas of expertise and interests:

Job Safety Analysis | Chemical Hygiene | Inventory management | Hazardous waste management | Hoods and cabinets inspection | CHP SOP SDS EAP and Contingency plan management | Biosafety | Safety audits and inspections | Safety training | Incidence reporting | Occupational Hazards and Safety | Chemical analysis | Instrumental analysis | Water quality monitoring | General laboratory management | Personnel supervision | Fire Safety and Radiation Safety | OSHA 10 Certified

Work History:

Aug, 2022 – Present: Manager I and EHS Officer

Aug, 2016 to Aug, 2022: Lab Supervisor and EHS Officer, College of Engineering and Architecture (CEA), Howard University, Washington, DC

- Develop and administer programs, plans and policies necessary to comply with federal, state and local regulations governing occupational, environmental, chemical, bio, radiation and fire safety
- Organize and train faculty, staff and students on lab safety and best practices to foster safety culture
- Communicate and collaborate with university officials and external agencies on various safety areas
- Initiate and coordinate with annual inspections on chemical fume hoods, biosafety cabinets, laminar hoods, fire extinguishers, and survey of the use of radioactive materials
- Coordinate with facilities department and contractors to repair non-functional utilities and equipment
- Conduct weekly lab safety inspections on workers' performance, job safety, functions of emergency stations and equipment, update waste inventories and report using EHS software system
- Maintain chemical inventories, chemical hygiene plans, SOPs, SDSs, emergency plans & procedures, and contingency plans for chemical spills
- Respond appropriately to emergency situations and be available for after-hour emergencies
- Investigate on the root-cause of lab accidents, injuries, incidents, and take appropriate actions
- Manage chemical hazardous waste collections, storage, and disposals
- Manage storage and disposal of biohazardous and bloodborne pathogen wastes
- Maintain logs and records for training, audits, inspections, and disposals
- Directly supervise laboratory technicians, and conduct annual performance evaluations
- Participate in meetings with upper administration and professional development activities

2006 to 2016: Senior Research Associate, Civil & Environmental Engineering, Howard University, Washington, DC

- Involved in setting up new environmental engineering laboratories, experimentations, and equipment
- Acted as the primary resource in installing various safety equipment and supplies for new labs
- Trained graduate and undergraduate students in laboratory safety and equipment safety

- Worked as the safety coordinator for the department on hazardous waste accumulation, storage and disposal

2004-2006: Research Associate, Chemistry, Michigan State University, East Lansing, MI

- Worked on membrane separation, nanofiltration and water purification
- Supervised student projects on hardness control in drinking water treatment

2001-2004: Post-Doctoral Research Fellow (AvH), University of Essen, Germany

- Worked in polymer membrane surface modification, separation and purification of organics and inorganics

1995: Project Assistant, National Environmental Engineering Research Institute, India

- Involved in Air Quality monitoring in residential, commercial, and industrial areas of Chennai, India

Analytical/environmental instrumentation skills

- Dissolved Oxygen, Nitrite, phosphate analysis, hardness (IC), toxic heavy metals (AAS), Total Organic Carbon, hydrophilic/hydrophobic analysis (contact angle), surface charge (zeta potential), organics (HPLC), ATR-FTIR (identification of chemicals), identification of unknowns and operation of common lab equipment

Technology skills:

- Microsoft Office 365, MS- Word, PowerPoint, Excel, Outlook
- Documents management – OneDrive, Dropbox, Google Drive, Mendeley, SharePoint
- Virtual meetings organizer – Zoom and Microsoft Teams

Education:

- Ph.D., Chemistry, Anna University, Chennai, INDIA (2001)
- M.Sc., Chemistry, Bharathiar University, Coimbatore, INDIA. (1994) (**GPA:3.70**)
- B.Sc., Chemistry, Bharathiar University, Coimbatore, INDIA (1992) (**GPA:3.71**)

Certifications and Professional registrations

- OSHA 10 – General Industry course (#35890) at Community College of Baltimore County, Dundalk, MD, May 2023
- Certified Water Quality monitor, River Trends for the Chesapeake Bay, 2022
- CCHO, Chemical Hygiene Officer, NRCC (2019-current).
- CES, Certified Environmental Scientist, NREP, (did not renew after 2017)

Skills in chemical and environmental laboratory research:

- Worked in chemical/environmental research for over 15 years, published 25 papers in journals and presented in 50 conferences.
- Citations: >2000; H-index: 22; i-index: 27.

Volunteering (Field work):

- Removal of invasive species in the *Middle Patuxent Environment Area* (MPEA), Howard County, MD (2 hours)
- Patapsco Heritage Greenway - monitoring quality of water and bio-organisms in the Chesapeake Bay watershed organized by *Alliance for the Chesapeake Bay*. (20 hours and counting)

Professional development:

- Course – OSHA 10 General industry – hazard identification, analysis and prevention at the worksite
- Course - How to be an effective chemical hygiene officer - by Lab Safety Institute, Natick, MA., December 2017.
- Talk - Challenges and rewards in enforcing laboratory safety and training: First year on the job - ACS National Meeting in Washington, D.C., August, 2017
- Talk - Environmental health and safety in HBCUs - ACS national meeting in Atlanta, GA., 2021
- RCRA trainings (by consultants), Radiation safety training (by RSO) since 2016