CONNECTICUT ACADEMY OF SCIENCE AND ENGINEERING (CASE)
SCIENCE AND TECHNOLOGY POLICY FELLOWSHIP PROGRAM

PLANNED SCOPE OF WORK

CASE FELLOWSHIP ON THE EMERGING CONTAMINANTS/PFAS PROJECT
at the CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

Statement of Need: The discovery of per- and polyfluoroalkyl substances (PFAS) in drinking water supplies, fish, and in people is an immediate concern throughout the United States as well as in many countries worldwide. As new scientific information is being developed, many states are working to determine not only where PFAS might be found in their state, but also what safe levels of PFAS in drinking water and other environmental media should be and how to regulate PFAS to protect human health and the environment.

The Connecticut Department of Energy and Environmental Protection ("DEEP") through the Connecticut Academy of Science and Engineering (CASE) is seeking a Fellow to support a two-year project focused on PFAS in the environment. DEEP desires a better understanding of potential PFAS sources, their locations within the state, areas that might be at risk to PFAS pollution, and identification of potential exposure pathways. Ideally this project will consist of a dedicated highly educated individual working directly with DEEP staff on policy related matters while being supported by an experienced technical team consisting of experts within relevant fields..

Overall Objective: The objective of this project is to research the potential sources of PFAS, their location within the state, and areas that might be at risk to PFAS pollution for the purposes of developing a strategic plan, policies and laws to address environmental and health issues as needed.

NOTE: *The planned Scope of Work, including the project tasks, are subject to change. You are encouraged to apply if your experience and/or education includes some, but not necessarily all of the planned project task areas.*

The range of planned project tasks include**:**

- Identify PFAS Sources: Develop a process for identifying PFAS sources and other emerging contaminants and execute process for PFAS sources. Review and revise existing list of known and potential PFAS sources using databases and literature review. Evaluate source types including aqueous film forming foam (AFFF) use/fire training areas, specific industry sectors, landfills, waste water treatment plants, biosolids, and incinerators. Present information in tables and geospatial databases.
- Evaluate potential PFAS exposure risk to private drinking water wells: Identify proximity of suspect PFAS sites to areas with private drinking water wells and develop a strategy for evaluating if those wells are polluted above the state drinking water action level. Prioritize areas of concern and prepare a strategy for coordination with state and local health departments, outreach to private well owners about sampling and treatment, and a mechanism for private well sampling.
- Evaluate potential PFAS exposure risk to natural resources: Identify proximity of suspect PFAS sites to critical resources and evaluate the potential for known or suspect PFAS sites to impact drinking water and surface water resources, including fish and shellfish.
- Evaluate CT law and policy: Evaluate adequacy of existing CT environmental statutes and regulations with respect to PFAS specifically and emerging contaminants in general for all environmental media (water, waste, air). Review existing publications and/or survey other states to learn how PFAS and emerging contaminants are being regulated elsewhere. Recommend modifications to existing CT laws and/or draft new policy that would be necessary to protect human health and the environment from unsafe levels of PFAS or other emerging contaminants.
- Coordination: Keep abreast of approaches that other jurisdictions are taking and share Connecticut's approaches with other.
- Communication: Prepare and implement a plan for outreach to stakeholder groups including users of PFAS-containing materials. Recommend best management practices or program actions by regulatory program or source. This may include preparation of fact sheets and web content for both the regulated community and the public.

For Questions, contact Terri Clark, Associate Director, CASE, 860-571-7143 or via email at tclark@ctcase.org