

Who we are:

The Department of Environment and Conservation exists to enhance the quality of life for citizens of Tennessee and to be stewards of our natural environment. Our Department is committed to providing a cleaner, safer environment that goes hand-in-hand with economic prosperity and increased quality of life in Tennessee. We deliver on our mission through managing regulatory programs that maintain standards for air, water and soil quality while providing assistance to businesses and communities in areas ranging from recreation to waste management. We manage the state park system and programs to inventory, interpret and protect Tennessee's rich natural, historical, and archaeological heritage.

About the Division of Air Pollution Control:

The Division implements the Tennessee Air Quality Act and delegated programs of the federal Clean Air Act, working to maintain the purity of Tennessee's air resources consistent with the protection of human health, general welfare and physical property of the people, maximum employment and the full industrial development of the state. The Division serves 91 counties within Tennessee and oversees local air programs in Davidson, Hamilton, Knox and Shelby counties. The Division operates an ambient monitoring network, provides air quality forecasting, establishes emission standards and procedural requirements for industries through the issuance of construction and operating permits, and ensures compliance by inspecting facilities and verifying compliance with issued permits or pursuing enforcement to ensure the facility returns to compliance in a timely manner.



TDEC Environmental Consultant 2 Lead Photochemical Modeler Division of Air Pollution Control Annual Salary Range: \$54,120 - \$86,604

The Tennessee Department of Environment and Conservation Division of Air Pollution Control modeling team applies advanced air quality models to simulate the transport and fate of pollutants. The Division is seeking candidates that have experience performing high level, complex technical work and provide guidance to decision makers and be a part of the of a dynamic, collaborative work team. The photochemical modeler assists with the State Implementation Plan (SIP) development and general air quality modeling assignments. This position will be in a leadership role to continue the development of the Division's photochemical modeling unit. The position is located in our Central Office in Nashville, TN. Currently, TDEC employees are working in alternative workspaces from their home with some scheduled time in their assigned office. Candidates for this position would be generally expected to work in the office two days a week.

The preferred candidate for this position will have the following technical knowledge of Comprehensive Air Quality Model with Extensions (CAMx) photochemical models and Community Multiscale Air Quality (CMAQ), Visualization Environment for Rich Date Interpretation (VERDI), and Sparse Matrix Operator Kernel Emissions (SMOKE). The preferred candidate will have experience in post-processing of modeling data as well as a strong background in scientific computer programming, and Geographic Information System (GIS). A strong background in atmospheric chemistry and physics, emission inventory development, dispersion modeling, meteorological modeling, and/or MOVES modeling. To apply for this position: <http://www.tn.gov/careers>.

Highlighted Responsibilities:

- Maintain and troubleshoot Linus-based workstations for air quality modeling use and use Python and Linux coding for modeli.
- Prepare data inputs for CAMx domains and emissions preprocessor systems on a Linux domain.
- Train other employees in the use of Linux commands and operations for modeling.
- Present work products that provide technically sound modeling results.
- Understand and apply EPA rules and guidance related to emission inventory and air quality modeling,

Pursuant to the State of Tennessee's Workplace Discrimination and Harassment policy, the State is firmly committed to the principle of fair and equal employment opportunities for its citizens and strives to protect the rights and opportunities of all people to seek, obtain, and hold employment without being subjected to illegal discrimination and harassment in the workplace. It is the State's policy to provide an environment free of discrimination and harassment of an individual because of that person's race, color, national origin, age (40 and over), sex, pregnancy, religion, creed, disability, veteran's status or any other category protected by state and/or federal civil rights laws.