

### **Position Summary:**

#### **Air Management Specialist- Mobile Source Emissions Modeler**

The Lake Michigan Air Directors Consortium (LADCO) is seeking a Mobile Source Emissions Modeler to assist the Wisconsin Department of Natural Resources in Madison, Wisconsin.

#### Position Summary:

This position will utilize mobile source emissions models (e.g., EPA's MOVES model) and other methods to prepare mobile source emission estimates and inventories for regulatory and other purposes. These mobile sources include on-road vehicles, off-road equipment, aircraft, marine vessels, and rail locomotives. The position will serve as a technical expert on motor vehicle emissions controls and fuels, ensure the currency of state mobile source emissions and activity data, and support DNR regulatory activities associated with mobile source emissions. The position will provide technical expertise to the Wisconsin Department of Transportation related to implementation of Wisconsin's motor vehicle emissions testing (inspection and maintenance) program, serve as an expert on testing rules and procedures, and provide regulatory and policy support for that program. Cooperatively with other staff, this position will recommend policy options based on modeling results and develop programs to reduce emissions from mobile sources.

The ideal applicant for this position has experience working with large data sets, is comfortable working in a dynamic environment, is capable and motivated to understand complex situations, detail oriented and well organized, can manage flexible work assignments, enjoys challenges and problem solving, and has excellent written and verbal communication skills.

A more complete description of the positional responsibilities is appended.

#### Compensation:

Starting pay is between \$29.00-\$41.00 an hour, based on the candidate's qualifications and experience.

#### Desired Skills and Knowledge:

1. Experience with, or demonstrated ability to use, mobile source emissions models.
2. Ability to generate, maintain, adjust, and manage databases and spreadsheets.
3. Ability to efficiently draft clear, concise, error-free technical writing products.
4. Ability to use programming software, including R or Python, for data and statistical analysis.
5. Knowledge of state and federal laws and regulations pertaining to mobile source programs.
6. Knowledge of inspection and maintenance programs, including federal and state requirements.
7. Understanding of federal transportation-related fuels programs.
8. Experience working collaboratively on assignments or projects.
9. Skill with using data visualization using tools such as SAS, SPSS, Tableau, or related applications.
10. Ability to work in a deadline-driven environment and efficiently handle multiple projects and priorities.
11. Strong organizational skills and attention to detail.
12. Excellent verbal and written communication skills, including the ability to communicate professionally and effectively with a variety of audiences about complex topics.
13. Ability to assume responsibility and respond to new challenges within a fast-paced environment and with little direction.

Location:

This position is located in the central office of the Wisconsin Department of Natural Resources in Madison, Wisconsin. This position may be eligible for up to 60% telework.

Application Instructions:

To apply, send a single PDF that includes a cover letter (not to exceed 2 pages) and resume by September 15, 2024 to Alexis Terry at [Alexis.Terry@wisconsin.gov](mailto:Alexis.Terry@wisconsin.gov). Reference "Mobile Source Emissions Modeler" in the email subject line.

Special Notes:

Applicants must be legally entitled to work in the United States (i.e., a citizen or national of the U.S., a lawful permanent resident, or an alien authorized to work in the U.S. without LADCO or Wisconsin Department of Natural Resources sponsorship) at the time of application. Successful applicants will need to undergo a background check before beginning work with the Wisconsin Department of Natural Resources.

**Air Management Specialist- Mobile Source Emissions Modeler:  
Responsibilities and Accountabilities**

- 60%    A. Conduct mobile source emissions modeling, generate emissions estimates from mobile sources, and apply results.
1. Use EPA's approved mobile source emissions model (MOVES) to develop mobile source emissions estimates for regulatory purposes, such as EPA-required emissions inventories and state implementation plan submittals.
  2. Develop, manage and maintain modeling-related data and files, such as input databases and modeling results.
  3. Develop and maintain updated procedures for conducting mobile source modeling.
  4. Ensure the program stays current with the latest mobile source emissions models and related guidance.
  5. Participate on appropriate regional and national committees and work groups related to mobile source emissions or inventories.
  6. Serve as the DNR expert on mobile source emissions and emission factors. Consult with and train other staff on the proper use of models and modeling techniques.
  7. Evaluate changes in national mobile source emissions standards and serve as a technical expert on mobile source vehicle emissions.
  8. Analyze and assess mobile source activity data and modeling results. Communicate and distribute mobile source-related emissions data and technical information to various audiences using graphics, spreadsheets, trends, and other methods.
  9. Assist external organizations and other interested parties seeking state mobile source emissions data or modeling results.
- 15%    B. Provide technical support to the state vehicle emissions testing (inspection and maintenance) program.
1. In coordination with the Wisconsin Department of Transportation, ensure Wisconsin's inspection and maintenance (I/M) program is effectively implemented and meets all EPA requirements.
  2. Serve as the primary DNR technical expert on the program. Answer questions, provide technical assistance and support, maintain emissions data, and resolve issues related to program implementation.
  3. Assist with the development of rules, policies and guidance needed to implement the program.

4. Serve on appropriate regional and national workgroups supporting I/M programs.
  5. Participate in contract development with prospective program contractors.
  6. Evaluate program effectiveness and recommend changes to the program to improve effectiveness or to meet requirements.
- 10% C. Provide modeling and related technical assistance needed to fulfill transportation conformity requirements.
1. Complete emissions modeling and any related technical work needed to ensure state compliance with federal transportation conformity requirements.
  2. Provide technical assistance to the Wisconsin Department of Transportation, the Southeastern Wisconsin Regional Planning Commission (SEWRPC) and Bay-Lake Regional Planning Commission (BLRPC), including providing data inputs, conducting modeling, updating planning assumptions, and assisting with regional emissions analyses.
  3. Develop motor vehicle emissions budgets for inclusion in state implementation plans.
  4. Review and support conformity-related documentation, such as draft assessments, determinations, and reports.
  5. Provide technical support and modeling needed to address any project-level conformity analyses.
- 10% D. Participate in other technical, policy and program activities related to the control of mobile source emissions.
1. Serve as a technical expert on transportation-related fuels, including gasoline, diesel, ethanol, reformulated gas, and electricity. Work with other staff to resolve questions related to state and federal fuels programs and any changes to those programs.
  2. Review and provide analysis of federal and state mobile source laws, rules, guidance, programs, and policies related to air quality.
  3. Develop briefing papers, summaries, assessments, and comments as needed on mobile source emissions topics.
  4. Assist with the development of state implementation plan revisions or other state plans, policies, or rules needed to meet state legal obligations or improve air quality.
  5. Participate on program-wide teams working on mobile source activities and undertake specific projects identified by the program to address mobile source emissions.

6. Work with appropriate state and federal agencies on mobile source topics and issues.
- 5% E. Completion of other duties as may be assigned.
1. Review and keep abreast of changes in knowledge and practices of position-related activities and responsibilities.
  2. Participate in job-related training and organizational meetings as assigned by supervisor.
  3. Prepare forms and reports as necessary for personnel and budget accounting purposes in a timely manner.
  4. Perform other position-related duties as assigned.
  5. Follow all general and position-related safety requirements.