The data scientist on the executive office staff of the Lake Michigan Air Directors Consortium (LADCO) is responsible for supporting regional air quality planning through the analysis and interpretation of observed and simulated atmospheric science data for the Midwest.

The primary duties of this position are as follows:

- Conduct statistical and geospatial analyses of air quality data, including ozone, fine particles, regional haze/visibility, air toxics and hazardous air pollutants; and meteorological data
- Advise air quality monitoring studies
- Manage contractor work related to the monitoring and analysis of weather and air quality data
- Support data analysis and monitoring activities by the LADCO states
- Work directly with state agency technical staff, EPA regional and national staff, federal land managers, and other MJOs on issues related to air quality monitoring
- Work on improving monitoring and analysis capabilities for understanding air quality in the Midwest
- Gather, process, and visualize observed meteorological and air pollution data
- Prepare technical reports, and communicate technical air quality information to both scientific and non-scientific audiences, and present data analysis results at meetings, conferences, and workshops.

Optional duties may include:

- Conduct regional-scale meteorology, emissions, or air quality model simulations
- Develop online air quality data analysis tools
- Develop and manage relational databases of air quality data
- Collect and process ground-based and satellite remote sensing data
- Apply machine learning algorithms, such as CART and GAM, to air quality data
The position requires:

- Master’s Degree in Statistics, Environmental Science, Chemistry, Data Science, Meteorology, Computer Sciences, or related field
- Experience with PC, Mac, and Linux computing systems, including hardware and software technology, and software compilation; experience with cloud computing a plus
- Experience using GIS software to analyze environmental data, including ESRI and QGIS, and Python scripting for GIS applications
- Experience using statistical software, such as R or SAS, to analyze and plot environmental data
- Experience using data visualization software, such as Python, R, IDL, or NCL to plot environmental data
- Experience applying statistical concepts and machine learning algorithms to analyze and interpret environmental data
- Ability to analyze, synthesize, and communicate data analysis results to technical and non-technical people
- Experience working with and directing teams of other data scientists
- Report writing skills and comfort with making public presentations

The position will be located at the LADCO executive office in Rosemont, IL. LADCO offers competitive salary, commensurate with experience, outstanding benefits, and a 403b matching program.

To apply for this position, email a cover letter, CV, and a list of references to LADCO’s Executive Director at adelman@ladco.org. Applications must be received by 5:00 p.m. Central on August 12, 2020. The tentative start date for this position is October 1, 2020.

LADCO provides equal employment opportunities to all employees and applicants for employment and prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.