

Position Description

ENVIRONMENTAL MODELER

Location

Montpelier, Vermont

Reporting Relationship

This position reports to [provide title of direct manager.]

Position Summary

We are seeking a highly qualified individual with a background in engineering and/or physical sciences and excellent quantitative skills, with experience in environmental modeling, scientific computing, and one or more of the following: GIS/spatial analysis, database analysis, or statistical analysis.

Responsibilities

As part of the ESM team, this person will support environmental and agricultural modeling projects, where general responsibilities may include the following:

- Application of air and water quality models at field, farm, and watershed scales
- Computer programming to enable efficient processing of environmental datasets and model customization
- Data compilation and analysis
- Integrating spatial analysis and mathematical modeling in environmental and agricultural sciences
- Preparation of high-quality project deliverables, including technical reports and presentations, as well as journal articles and literature reviews
- Collaboration with team members and clients to understand project goals and objectives

Required Skills

To be considered for this position, the following skills are required:

- Experience in application of atmospheric, agronomic, hydrologic, or other environmental models
- Scientific computer programming, with proficiency in at least 1 of: Python, FORTRAN, VB.NET, or C
- Practical applications of spatial analysis software (ArcGIS, QGIS)
- Excellent written and verbal communication skills

Desired Skills

The following skills are beneficial but not required:

- Experience with relational databases such as PostgreSQL, Microsoft SQL Server, or Microsoft Access
- Experience performing analysis with large national-level environmental datasets including: NLCD, CDL, SSURGO, NHDplus, gridded weather data, pollutant monitoring data
- Knowledge of agronomic practices in the United States, Canada, and Europe
- Statistical or probabilistic analysis techniques

Experience and Education

Master's degree or higher in the physical sciences (e.g., agricultural/biological engineering, civil/environmental engineering, hydrology, atmospheric science, chemistry, or related environmental/geospatial field). Three to five years of post-graduate experience in a scientific or consulting position in a relevant field is required. Additional advanced degrees may substitute for work experience.

How to Apply

Please visit our careers page on our company website at www.stone-env.com to apply online.

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Stone is a 100% employee-owned environmental science, engineering, and field services firm located in Montpelier, Vermont. Founded in 1992, our mission is to provide tools, information, and analyses to help clients solve complex environmental challenges. We bring together over 45 scientists, engineers, modelers, application developers, and project managers with diverse backgrounds and skills and a shared commitment to scientific integrity, innovation, and focus on client needs. Our capabilities include environmental assessment and remediation, water resources management, environmental modeling, data quality assessments, support for agrochemical product stewardship and registration, geospatial analysis, data visualization, and application development. The company's headquarters is located in Montpelier, Vermont with remote employees in New Hampshire and Maine. Stone is proud to be named one of the Best Places to Work in Vermont. Visit our website to learn more about services, as well as why we were named one of the Best Places to Work in Vermont in 2019: <https://www.stone-env.com/>.