STONE ENVIRONMENTAL INC

Position Description

ENVIRONMENTAL MODELER

Location

Montpelier, VT

Position Summary

Stone Environmental is seeking a talented individual with a background in engineering and/or physical sciences and excellent quantitative skills in environmental modeling, scientific computing and one or more of the following: GIS/spatial analysis, database analysis, or statistical analysis. This person will support environmental and agricultural modeling projects within the Environmental Systems Modeling team at Stone — a group of diverse, highly motivated environmental scientists, engineers, GIS specialists, and computer software developers.

Responsibilities

General responsibilities will include:

- 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;
- Environmental database compilation and analysis;
- Integrating spatial analysis and mathematical modeling in environmental and agricultural sciences;
- Collaboration with team members and clients to understand project goals and objectives;
- Ensuring high quality scientific analysis and project deliverables, including technical reports and presentations.

Required Skills

The following skills are required to be considered for this position:

- Training and experience in pollutant fate and transport in the environment;
- Experience calibrating and validating mathematical models using measured data and interpreting results;
- Scientific computer programming, with proficiency in at least 1 of: Python, FORTRAN, VB.NET, or C;
- Experience in relational databases such as PostgreSQL, Microsoft SQL Server, or Microsoft Access;
- Creative thinking and problem solving;
- Self-motivation and keen attention to detail;
- Enthusiasm for learning new skills and subjects;

- Excellent written and verbal communication skills;
- Ability to work as part of a team.

Desired Skills

The following skills are ***beneficial***, but are not required for this position:

- Experience in regulatory agrochemical fate and transport modeling in water, soil, and air;
- Practical applications of spatial analysis software (ArcGIS, QGIS);
- Experience performinganalysis with large national-level environmental datasets including: NLCD, CDL, SSURGO, NHDplus, gridded weather data, pollutant monitoring data;
- Knowledge or experience in application of atmospheric, agronomic, hydrologic, or other environmental models;
- Knowledge of agronomic practices in the United States, Canada, and Europe;
- Statistical/probablistic analysis;
- Web site development, including mapping applications.

Education and Experience

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 Environmental provides scientific tools, information, and analyses to help clients solve complex environmental challenges. Our team of scientists, quality assurance professionals, and engineers who work around the globe, and our clients rely on us because of our integrity, expertise, and innovation. Our capabilities include water resources management and modeling, contaminated site investigation and remediation, data quality assessments, support for agrochemical product stewardship and registration, and geospatial analysis, visualization, and application development. Stone is 100% employee owned through the Stone Employee Stock Ownership Plan (ESOP) and employs 40 scientists, engineers, modelers, programmers, quality assurance professionals, and project managers. The company's headquarters is located in Montpelier, Vermont, with an office in Concord, New Hampshire.