

Position Description

ENVIRONMENTAL MODELER/GEOSPATIAL SCIENTIST

Location

Montpelier, VT

Position Summary

Stone Environmental is seeking a talented individual with a background in the physical sciences and excellent quantitative skills in environmental modeling and one or more of the following: GIS/spatial analysis, computer programming, 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:

- Integrating spatial analysis and mathematical modeling in environmental and agricultural sciences;
- Computer programming to enable efficient processing of environmental datasets and model customization;
- Environmental database compilation and analysis;
- Application of hydrologic and water quality models at field, farm, and watershed scales;
- 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:

- Spatial analysis using ArcGIS or open source GIS software;
- Scientific computer programming, with proficiency in at least 1 of: Python, R, VB.NET, C, or FORTRAN;
- Experience in relational databases, including 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;

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- 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;
- Experience performing spatial analysis with large national-level environmental datasets including: NLCD, STATSGO, SSURGO, and NHDplus;
- Knowledge or experience in application of agronomic, hydrologic, or other environmental models;
- Knowledge of agronomic practices in the United States, Canada, and Europe;
- Statistical/probabilistic 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). One to two 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 company website at www.stone-env.com to download an application form. Send a completed application form, cover letter and résumé by post or e-mail to:

Ms. Joanne Perry
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535 Stone Cutters Way
Montpelier, VT 05602 USA
Fax / 802.229.5417
E-Mail / hr@stone-env.com

Stone Environmental provides scientific tools, information, and analyses to help clients solve complex environmental challenges. We are 100% employee owned and we are a community of talented and innovative individuals working together to ensure superior quality, relentless improvement and continued success as a company. We value each of its employee owners, their ideas and efforts, and serves its clients with fresh, quality solutions. We enjoy the work we do and share our passion with both our local and professional communities. Our team of scientists and engineers work in Vermont, New Hampshire, Florida, Colorado, and our clients rely on us because of our integrity and expertise