Position Description

ENVIRONMENTAL MODELER

Company

Stone Environmental, Inc. is a 100% employee-owned consulting company located in Montpelier, VT that focuses on environmental science and data management. The Environmental Systems Modeling (ESM) team is a group of diverse, highly motivated environmental scientists, engineers, GIS specialists, and computer software developers, who specialize in applying both established and custom-designed models and modeling tools to complex environmental problems. We work for a broad range of client organizations in a variety of sectors and industries, who value our expertise, innovation, and high-quality products. Projects range from locally-focused assessment of agricultural best management practices (BMPs) to national-scale water quality assessments. We also work with other teams at Stone to improve our understanding of environmental processes by collecting and analyzing field data for use in modeling investigations, creating web applications and database management strategies to improve user access to information, and perform modeling analyses to assist in engineering and design efforts.

At Stone Environmental, Inc., we value our employees and support a healthy work-life balance. We offer continued learning and training opportunities and a collaborative work environment. Employees are supported in developing the skills they most value and encouraged to bring new ideas and techniques into the work we do.

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. 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

- 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 would be beneficial to this position:

- 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 probablistic analysis techniques;

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 company website at to complete our online application form and attach a resume and a cover letter by clicking on this link Apply Now.

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