

Position Description

ENVIRONMENTAL MODELER

Location

Montpelier, Vermont

Position Summary

The Environmental Systems Modeling (ESM) team at Stone Environmental is seeking a highly qualified and motivated 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.

The 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 performing modeling analyses to assist in engineering and design efforts.

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 and meet project goals and objectives.

Preferred Qualifications

- Experience in application of hydrologic, agronomic, atmospheric, or other environmental models;
- Scientific computer programming, with proficiency in at least 1 of: Python, R, FORTRAN, VB.NET, or C#;
- Experience with relational databases such as PostgreSQL, Microsoft SQL Server, or Microsoft Access;

- Practical applications of spatial analysis software (ArcGIS, QGIS);
- 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;
- Excellent written and verbal communication skills;
- Ability to manage time and work on multiple projects concurrently;
- Ability to problem solve and determine steps needed to accomplish high level tasks;
- Ability and willingness to learn new skills and take on new challenges.
- Other administrative duties as assigned.

Working Conditions

- Primarily office/computer-based with no essential physical requirements. Opportunities to participate in occasional field work exist but are not required for this position.
- Based primarily in our Montpelier office, with flexibility for part-time remote work. Full time remote options may be considered. Work hours are flexible, but typically occur during 'normal' weekday business hours.
- Members of our team often attend conferences and meetings requiring some travel; willingness to participate is desired but not required.

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 <http://www.stone-env.com> to apply online.

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About Us

Stone is 100% employee-owned environmental science, engineering, and consulting firm located in Montpelier, Vermont, with remote offices in Massachusetts, Missouri, Austria, and Germany. Founded in 1992, our mission is to provide tools, information, and analyses to help our clients solve environmental challenges with integrity, expertise, and innovation. We bring together over 50 scientists, engineers, and

foundation staff with diverse backgrounds and skills—and a shared commitment to excellence, creativity, and accountability through employee ownership.

Since 2016, Stone’s employee-owners have taken a direct stake in the value and health of the company through an Employee Stock Ownership Plan (ESOP). This unique ownership and management model is a powerful motivator that inspires close cross-department collaboration and company-wide unity. Stone has an excellent compensation package, including competitive pay; health, dental, and vision insurance; 401K with company match; ESOP benefit; paid time off; and flexible holidays.

We value our employee-owners and support a healthy work-life balance by offering continued learning and training opportunities and a collaborative work environment. Employee-owners are supported in developing the skills they most value and are encouraged to bring new ideas and techniques into the work we do. We strive to maintain an inclusive, cooperative, and responsive culture where employee-owners are empowered to achieve personal success and contribute to success of the company.

But what really sets us apart—and makes employee-owners want to stay at Stone—is our culture, the interesting and meaningful work we do, and the inspiring, dedicated people we work with. Stone has a progressive culture—from open communication, transparent leadership, and the freedom to explore one’s passions—to its commitment to giving back to the community and a firm “work hard, play hard” mentality. Simply put, it is one of the best places to work and why were voted a top place to work in Vermont for the last four years.



Stone is proud to be an equal opportunity and affirmative action employer. We are committed to diversity and inclusion throughout all aspects of employment. The decision to hire, promote, discipline or discharge is based on merit, competence, performance, and business needs. We do not discriminate on the basis of race, color, religion, marital status, age, national origin, ancestry, physical or mental disability, medical condition, pregnancy, genetic information, gender, sexual orientation, gender identity or expression, veteran status, or any other status that is a protected category under federal, state, or Vermont law. Our employee-owners have taken an active role in ensuring our team is diverse in its composition, equitable in its practices, and promotes an inclusive culture.