

# Position Description

## **GIS SCIENTIST-AGRONOMIC MODELER**

### Location

Montpelier, Vermont

Stone Environmental specializes in the following technical areas:

- Watershed and groundwater modeling for environmental fate and exposure assessments
- GIS integration with modeling and related software
- ArcGIS server application development and hosting
- Enterprise GIS database design and implementation
- ArcGIS application development
- Environmental database collection and compilation
- Field data collection utilizing mobile GIS
- Working and presentation map production
- GIS-based statistical analysis and reporting

### Position Summary

Stone Environmental is seeking an experienced individual with a background in agronomic and water resource sciences with solid skills in GIS spatial analysis, environmental modeling, and application programming. This person will work within a team of diverse, highly motivated scientists and GIS specialists.

### Responsibilities

General responsibilities will include:

- Technical and project leadership
- Identifying and securing project opportunities
- Familiarity and fluency with advanced scientific agronomic and water resource modeling concepts
- Spatial and data analysis, computer modeling, statistics interpretation and presentation, and technical writing skills at an advanced level
- Conducting and developing diverse GIS projects through the use of GIS and database software
- All aspects of data creation, collection, and compilation
- GIS application development

Specific responsibilities may include:

- Project management
- Direct involvement in research projects
- Computer modeling, report writing, and statistical analysis of data
- Meeting with clients and representing Stone at association and regulatory meetings
- Serving as study director for FIFRA-related projects

### Required Skills

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

- Experience performing spatial analysis with national-level environmental datasets including: NLCD, STATSGO, SSURGO, and NHDplus
- Agronomic and hydrologic modeling, using models such as SWAT, PRZM3.12, EXAMS, REMM, SWMM, HEC-HMS, HEC-RAS, GLEAMS, RZWQM, LEACHP
- GIS programming using ArcObjects in VB.NET or C#
- Database design/programming with MS SQL Server and/or MS Access
- Extensive knowledge of agronomic practices in the United States and Canada
- Critical thinking and problem-solving ability
- Excellent communication skills
- Self-motivation and ability to focus on the tasks at hand

### Desired Skills

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

- Experience with GIS Web application programming using ASP.NET and ESRI Web ADF
- Experience with ArcGIS ModelBuilder and ArcPad
- Experience with SAS and SPSS

### Experience and Education

- Master's degree or higher in Agricultural Engineering, Water Resources, or related field
- Minimum of eight years of project experience in GIS and modeling applications

### How to Apply

Please send your résumé by post or e-mail to:

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

*Stone Environmental, Inc. is a 35-person environmental science and geographic information systems (GIS) consulting firm founded in 1992. Stone offers a wide variety of services to local, national, and international clients. Our team of multidisciplinary professionals is organized into five distinct groups that share a common theme: water quality. These groups are Agrochemical Fate & Exposure, Site Investigation Field Services, Water Resources & Wastewater Management, Information for Sustainable Development, and Applied Information Management. Stone is based in Montpelier, Vermont, a New England state admired for its quality of life and strong environmental values. This desirable location has enabled us to recruit some of the best scientists and professionals in the industry. Stone offers competitive wages and benefits, and a relaxed work environment with a great group of talented people.*