

## Position Description

### **GIS SCIENTIST / ENVIRONMENTAL MODELER**

#### Position Summary

Stone Environmental is seeking a talented environmental sciences or agricultural engineering individual with solid skills in GIS, spatial analysis and statistics, environmental process and assessment modeling, dynamic decision support systems and, and computer programming. This person will work within a team of diverse, highly motivated scientists and GIS specialists.

#### Responsibilities

General responsibilities will include:

- Application of GIS-based spatial and scientific analysis techniques in environmental and agricultural sciences
- ArcGIS application and tool development for:
  - integration with environmental models and spatial statistics and related software; and
  - automation of geoprocessing tasks
- Application of hydrologic and water quality models in large and small watersheds
- Environmental database compilation and analysis
- Computer programming to enable efficient processing of environmental datasets
- Conducting and developing diverse projects integrating GIS, modeling, and database applications
- Project management
- Preparing proposals and user documentation
- Maintaining good client relationships

#### Required Skills

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

- Fluency with ArcGIS, including Spatial Analyst
- Experience performing spatial analysis with national-level environmental datasets including: NLCD, STATSGO, SSURGO, and NHDplus
- Agronomic and hydrologic modeling
- GIS programming using ArcObjects in VB.NET or C# or Python
- Critical thinking and problem-solving ability
- Excellent communication skills
- Solid technical writing 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:

- Fluency in relational databases, including SQL and Microsoft Access
- Knowledge of agronomic practices in the United States and Canada
- Agronomic and hydrologic modeling, using models such as SWAT, PRZM3.12, EXAMS, REMM, SWMM, HEC-HMS, HEC-RAS, GLEAMS, RZWQM, LEACHP, or APEX
- Knowledge of ArcGIS extensions, including ArcHydro, Geostatistics, etc.
- Experience with GIS Web application programming using ASP.NET and ESRI Web ADF
- ArcSDE
- Database programming
- Statistical analysis
- Other programming languages, such as, Fortran, ADO.NET, PERL, Java, etc.
- Experience with ArcGIS ModelBuilder and ArcPad

### Education and Experience

- Master's degree or higher in Agricultural Engineering, Ecology, Water Resources, Informatics or related environmental field
- One year of project experience in GIS and modeling applications desired

### How to Apply

Please send your cover letter and 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.*