

## POSITION DESCRIPTION

Title: Research Analyst (Temporary)  
Responsible to: Director of Sustainability Programs  
Location: Burlington, VT

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ISCIENCES, L.L.C. conducts research to improve our customers' understanding of sustainable development, human security and the environment. We are also the creators of the TerraViva! family of data visualization software about Earth and its people.

Our projects include: assessing vulnerability to flooding; developing sub-national models of the onset of food crises; designing a strategic warning system for fragile nation states susceptible to conflict; identifying corporate indicators to promote socially responsible investment; assessing exposure to water shortages for multi-national corporations; developing models to predict basic optical parameters of materials; and, developing algorithms for understanding and using hyperspectral data.

ISciences provides critical analysis influencing major policy decisions at some of the world's largest companies and at the highest reaches of government.

For more information, visit <http://www.isciences.com/> and <http://www.terraviva.net/>

### **Summary of Position:**

This position is a temporary position to support an existing contract through March, 2010.

The Research Analyst (temporary) will be a member of a team that performs quantitative sustainability and vulnerability assessments for a variety of U.S. government and commercial clients. These analyses tend to focus on freshwater shortages and surplus, cover large geographic areas (e.g., global or continental scale), and use data derived from satellite remote sensing, geospatial analysis, and quantitative environmental, social, political, economic indicators.

### **Duties:**

1. Use industry standard geospatial analysis software such as ArcGIS, IMAGINE, ENVI, and/or IDRISI to run state of the art geospatial models and perform quality control/assurance on results.
2. Interpret results from statistical analyses.
3. Develop and run custom scripts and programs in programming environments such as Python, VBA, and/or Kepler. Familiarity with Java a plus.
4. Integrate data from a variety of sources, formats, and disciplines into coherent databases.
5. Other duties as assigned.

**Qualifications:**

1. Bachelor degree in environmental science, computer science, mathematics, political science, or related discipline. Post graduate education preferred.
2. Demonstrated interest and ability to understand and analyze sustainability and vulnerability, particularly assessments of freshwater issues.
3. Demonstrated interest and understanding of geospatial analysis using satellite remote sensing and geographic information systems.

**Work Schedule:**

40 hours per week. Nominal schedule is 8:00 a.m. – 5:00 p.m. with opportunities for flexible schedules pending approval by manager.

**Security Clearances:**

In the event that this position requires security clearances at a future time, continued employment will depend upon obtaining such clearances.

**Compensation:**

Competitive salary based on relevant experience and training.

**Application Process:**

Interested candidates should email a letter of introduction stating qualifications and salary history, along with a resume, to [jobs@isciences.com](mailto:jobs@isciences.com) by November 6, 2009.

Alternate mailing address:

Human Resources Department  
ISciences, LLC  
2155 Jackson Avenue  
Ann Arbor, MI 48103  
USA

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