Devereux Consulting Overview

Devereux Consulting, Inc. is a woman-founded and woman-owned business located in Maryland that provides support for the development and implementation of water quality decision support tools. Current clients include the Chesapeake Bay Program, the Delaware Department of Natural Resources and Environmental Control, and the United States Geological Survey. Devereux Consulting focuses on promoting transparency in watershed management by creating publicly available state-of-the-art web-based systems open to use by all interested parties and persons.

Website: DevereuxConsulting.com

Job Title: Data Analyst

Location: Chesapeake Bay Program, Maryland Office (often working remotely)

<u>Summary</u>

Devereux Consulting is hiring a Data Analyst to provide technical support for the development and application of decision support tools by the Chesapeake Bay Program related to the 2010 Bay TMDL and related watershed implementation plans. The Data Analyst will operate on the interface between the Chesapeake Bay Program and the seven major jurisdictions within the Bay watershed (Delaware, Maryland, New York, Pennsylvania, Virginia, West Virginia and the District of Columbia). The position will involve significant responsibilities for the ongoing development of CAST, the Chesapeake Assessment Scenario Tool.

<u>Key Job Outcomes</u>

- Respond to jurisdiction requests for assistance with environmental efforts by providing data and tools, and incorporating new and interim BMPs, co-benefits, and cost optimization of BMPs into the CBP Partnership's modeling tools.
- Respond to questions from jurisdictions on data that informs environmental planning and water quality assessments and how the tools work.
- Organize, facilitate, coordinate, and participate in workgroup meetings and conference calls to provide project status reports and communicate information.
- Support development and use of tracking and reporting, CAST and the time-variable Watershed Model as well as ensure that the BMP tracking, verification, and reporting works within the modeling systems.
- Support future versions of CAST by incorporating all new data and methods per established deadlines and managing the simultaneous availability of multiple versions of CAST, as requested in Partnership decisions.
- Work with EPA, the Chesapeake Bay Program Partnership, and CAST users in development of implementation plans using CAST.
- Support the Watershed Model input data as developed by CAST.
- Enhance the CAST home page, user interface, and related data analysis tools to facilitate use and understanding of model inputs and outputs.
- Assist EPA and CBP in responding to jurisdictional modifications to CAST.
- Update cost effectiveness rankings (pounds reduced per BMP unit and cost per pounds reduced).

- Develop expanded tool documentation and work to continually update the documentation as changes are made. Support the web publication of detailed documentation of the time-variable Watershed Model targets and CAST.
- Provide support to the seven watershed jurisdictions as requested to support work on their state NEIEN nodes, development and implementation of jurisdiction-specific databases and mechanisms for enhancing tracking, verification and reporting of BMP data, and clean-up of their historical BMP databases.
- Build in mechanisms for certifying verification of the inbound BMP data following the protocols and procedures agreed to by the CBP Partnership for the annual progress review.
- Summarize lessons learned from the prior year of NEIEN implementation and recommend further enhancements.
- Organize and deliver trainings in various locations throughout the watershed, as requested by the seven Bay jurisdictions. Whether these sessions will be webinars, in-person meetings or a combination of the two will be determined based on needs expressed by each jurisdiction and health safety protocols from the U.S. CDC.
- Analyze scenarios from CAST to answer questions and address concerns by users.
- Assist jurisdictions in understanding data from the environmental models. This includes continuing development of data visualization products. Outreach to jurisdictional technical leads is expected to ensure that every jurisdiction receives data in a format that is useful and facilitates analyses to improve planning resulting in water quality improvement.
- Provide technical training to Chesapeake Bay Program Office staff on CAST.
- Support jurisdictions in using CAST for environmental planning and implementation prioritization.

Required Position-Specific Competencies

- Knowledge of, and experience with, water quality management across major watershed such as the Chesapeake Bay.
- Knowledge of watershed-related BMPs across agricultural, natural and developed land uses.
- Knowledge of, and experience with, the systems architecture of web-based decision support tools.
- Ability to manage complex data systems involving millions of data records and related data tables.
- Knowledge of, and experience with, basic website programming including HTML.
- Knowledge of, and experience with, database systems and especially SQL Server and PostGreSQL.
- Knowledge of, and experience with, GIS systems, especially QGIS.
- Knowledge of, and experience with, data visualization systems including Tableau and R Shiny.

Required Organizational Competencies

- Technical Skills: Proven ability to learn and master technical skills including new technologies related to decision support systems as they become available.
- Communication and Influencing Skills: Proven ability to influence others through negotiation and proven oral and written communication skills.
- Time and Project Management Skills: Proven ability to manage a range of complex tasks with interdependent deadlines that involve multiple decision makers.

- Self-Management and Teamwork: Ability to work independently or as a member of the team, ability to be detailed-oriented, and ability to manage stress effectively in a fast-paced environment.
- Matrix Management: Ability to thrive in a matrix organization.
- Confidentiality: Ability to maintain confidentiality on work related matters.

Required Education, Training, and Experience

- Bachelor's degree in civil engineering or related engineering field with an emphasis on water resources or a Master's degree in environmental science or a related field.
- Fluent English oral and written communication skills.

Other Information

- Willingness to travel throughout the Chesapeake Bay Watershed as needed.
- Ability to work remotely effectively without supervision.
- Must currently be eligible to work in the United States at time of hire.
- Following Federal Government requirements, must be fully vaccinated for COVID-19 at time of hire.

Compensation

- Starting salary: $80,000.
- W-2, full-time, salaried position, exempt from overtime.
- 401(k) retirement plan with employer contribution.
- Employer contribution to personal health insurance coverage.

To Apply

- Send cover letter and resume by email to Human Resources Director, hr@devereuxconsulting.com.
- All inquiries should be emailed to the same address.
- No telephone inquiries, please.
- Devereux Consulting is committed to being an equal opportunity employer. Persons of all backgrounds, races, ethnicities, genders, sexualities, and other diversities are encouraged to apply.