

Water Research Analyst

University of Pittsburgh Water Collaboratory

The Water Research Analyst will work closely with the Pittsburgh Water Collaboratory Director and the Leadership team to help advance key environmental research and capacity building initiatives across our internal and external networks. Duties include spatial and statistical analysis, field sampling, environmental sensor operations, and data interpretation. The Analyst will curate datasets and share them openly per funder requirements and translate findings into public-facing research products such as community consensus reports, science briefs, and science communication for social media. The Analyst may also contribute to manuscripts and technical figures. They will, along with PWC leadership, support the development and advancement of broad and diverse relationships, with a focus on seeding and supporting collaborative water research teams and student research efforts. Additionally, the Analyst will help lead targeted efforts to provide technical assistance and build capacity among PWC's partners, to raise the quality and impact of community science efforts. The position will be supervised by the Director.

The Water Research Analyst position will support and enhance efforts by the Pittsburgh Water Collaboratory to advance water quality and geospatial research, with a goal of supporting sustainable water resource outcomes across the region. Working under the Director, and with guidance from the Leadership Team, the Analyst will focus on four key operational goals:

1. This role will perform statistical, spatial, and QA/QC analysis of existing data, in support of PWC projects (e.g., source water water equity assessments, tributary water quality trends, flooding occurrence). The position will be capable of conducting independent data analyses to interpret and identify the utility of new and existing data. With support, create public facing data products that convey the impact and results of PWC efforts aimed at improving regional water sustainability. Contribute efforts to disseminate findings by creating high-quality data products for publications, reporting, and social media.
2. Support ongoing water research needs in the lab and field. This will include assisting in research planning and design, leading and coordinating field work, troubleshooting equipment, and data collection and storage. These efforts will also include some sample collection for lab analysis, recording observational and meta-data, and other field techniques.
3. Support the Water Collaboratory's technical assistance and capacity building efforts targeting community partners. This work raises the quality of NGO and citizen science, and enhances Pitt's efforts at increasing public impact. This work may entail educating partners on best practices in research design, field techniques, sensor maintenance, and data analysis.
4. When necessary, engage with agencies and NGOs to identify collaborative research opportunities, share findings via presentations and posters, and inform efforts to address regional needs.

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