

Job Title: Research Intern

Requisition ID **56541** - Posted **01/08/2016** - **Research & Development** - **NJ - Delran** - **Full Time** - **Regular**

Founded in 1886, American Water is the largest and most geographically diverse publicly traded U.S. water and wastewater utility company. With headquarters in Voorhees, N.J., the company employs 6,800 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to an estimated 15 million people in 47 states and Ontario, Canada. To learn more about American Water and additional career opportunities, visit **www.amwater.com**.

Primary Role: Responsible for implementing research projects and activities related to environmental engineering, microbiology, chemistry, water quality, and process control with special emphasis on wastewater, water quality, or utility operations. Responsible for maintaining all applicable lab certifications, accreditations, or approvals to conduct compliance and process quality control work. Implements the day-to-day collection of water quality samples.

Key Accountabilities:

Performs analysis of water, wastewater, or other environmental samples for various research projects. Techniques may include bench and pilot scale analyses, water quality analyses using spectrophotometry, luminescence, total organic carbon, and ion chromatography. (40%)

Performs sterile microbiological techniques when working with assays in a laminar flow hood; especially research experience using advanced techniques such as immunofluorescence microscopy, cell culture maintenance and molecular analysis of human pathogens (bacteria, viruses and/or protozoa) using methods such as PCR, RT-PCR, quantitative PCR, FISH, or sequencing. (40%)

Implements sample collection, sample processing, laboratory supplies and glassware preparation. Prepares and manages sample shipments. Conducts data collection, data processing, analysis, and project management. (10%)

Participates in the laboratory Quality Assurance/Quality Control (QA/QC) and health and safety programs (10%)

Knowledge/Skills: Knowledge of wastewater/water treatment concepts, theory, research procedures, and analytical techniques with emphasis on wastewater operational efficiency, water quality or utility operations. Knowledge of environmental regulations, technologies, and water quality or operations related to wastewater or water treatment facilities. Knowledge of company procedures, policies and operations.

Education/Experience: Bachelors (Masters preferred) in engineering, environmental science, chemistry, microbiology or related area with a strong research background in wastewater, water quality, or utility operations. Candidates without an undergraduate degree will not be considered. Zero (0) to two (2) years experience in environmental research and knowledge of water, wastewater, and laboratory operations.

Skills: Good research (e.g., planning, organizing, coordination) and analytical skills. Reliable; ability to take direction and work independently on projects; attention to detail; Good verbal and written communications skills (e.g., writing, listening, and presentation); good interpersonal skills (e.g., cooperation, team building, tact/diplomacy, persuasion). Strong computer skills with data management, spreadsheets, and analysis. Competent in the use of word processing, spreadsheet, flow-charting, with systems analysis knowledge. The candidate will provide oral and electronic updates on progress and results to the supervisor and project managers, maintaining records in lab notebooks, and data entry and mathematical processing of raw data in Excel spreadsheets.

Work Environment: Generally laboratory-based, but could be office-based when involving computer data entry, reporting.

Travel Requirements: Generally local driving, but could vary with specific projects.

Key Interfaces/ Relationships: Senior Research Analysts, Environmental Scientists/Engineers, Managers.

Competencies (from the Water Division Competency Dictionary):

Analysis and Problem Solving, Delivers Results, Team work, Champions Change, Influencing, Sharing Knowledge & Expertise

Join American Water. We care about water. It's what we do.®
American Water is committed to a diverse workforce.

EOE/Minority/Female/Disabled/Veteran