



South Platte Renew Intern (Environmental)

Description

Overview

South Platte Renew (SPR) is the 3rd largest water resource recovery facility (WRRF) in Colorado and cleans nearly 20 million gallons of wastewater a day. SPR is publicly owned by the Cities of Littleton and Englewood and serves approximately 300,000 residents in Littleton, Englewood and 19 other connecting communities. The Environmental Programs Division of SPR is recruiting an engineer intern for the summer of 2023 to help perform a variety of wastewater science and/or engineering duties related to environmental data collection and sampling, regulatory compliance, data analysis, and GIS. As SPR renews water for Colorado's future, the SPR Engineering Division plans, designs, and constructs treatment infrastructure, manages all assets, optimizes processes, and maintains all electrical instrumentation and controls.

Why join us?

SPR has transformed over the years but what has remained constant is the dedication to our communities, to our employees, and to the values of SPR: safety, passion, leadership, accountability, trust, teamwork, and excellence. SPR is recognized as a "Utility of the Future Today" and has won awards for providing high-quality treatment for high-quality water, rethinking wastewater through innovative solutions, and engaging our community to build stronger partnerships; particularly, in community education, watershed stewardship, and recovery of resources such as water, energy, and nutrients.

We provide our interns with a variety of projects, tasks, and hands-on experience including environmental sampling, regulatory research and analysis, and technical communications (verbal and written) to experience all facets of the diverse engineering industry of wastewater, environmental sustainability, and resource recovery. We invest in training and development, so you can build your future along with ours, creating an impactful career unique to you.

If you are eager to learn and are motivated by dynamic and challenging work, we'd love for you to join us.

Position Summary

This seasonal intern position plans, reviews, and performs environmental, regulatory analysis, and/or data analysis work to support the South Platte Water Renewal Partners (SPWRP) Environmental Programs Division. Performs data analysis and regulatory review work related to environmental permits, water quality standards, and plant operations and laboratory data. Implements projects relating to GIS, database design and data visualization to support all plant divisions. Work is to be performed onsite at the South Platte Renew facility and in the field within the South Platte River basin.

Duties & Responsibilities

The listed examples of work are not intended to be all-inclusive. They may be modified with additions, deletions, or changes as necessary.

Essential Duties & Responsibilities

- Performs analysis, prepares technical reports and provides comments related to permitting, reporting, and data management activities.
- Conducts data analysis, develops analytics tools, creates data visualizations and automates reporting of key information to regulatory agencies and internal end-users.
- Conducts technical analyses on flows, water quality, and plant process data.
- Performs field work and data collection at the plant and in the South Platte River watershed.
- Prepares scientific research, calculations, and modeling.
- Prepares technical reports; meets and coordinates with environmental programs department, operations staff, consultants, contractors, government agencies, and utilities companies.
- Develops and improves upon tools and business processes utilizing geospatial databases.
- Utilizes GIS to produce maps, drawings, and graphics.
- Operates accessory equipment, scanners and plotters.
- Performs additional duties as assigned.

Other Duties & Responsibilities

Performs other duties as assigned and required.

Preparation & Training

Education: Currently enrolled and working toward a Bachelor's, Master's or other advanced degree in Environmental Science, Watershed Science, Engineering, Chemistry, Biology, , or a directly related field.

Work Experience: Demonstrated commitment to producing high quality work through independent or course-related projects, previous internship experience, or volunteer work.

Required Driver's License: Valid Colorado driver's license and a clear or acceptable MVR.

An equivalent combination of education, training and relevant job experience may be substituted.

Knowledge, Skills & Abilities

Knowledge

Working knowledge of:

- Environmental concepts, mathematics, statistics, and water chemistry
- Data analysis and data management
- Wastewater treatment processes (preferred)
- Regulations, environmental permitting compliance, and codes (preferred)

Skills and Abilities

Computer Skills

- Basic computer knowledge including, but not limited to, Microsoft Word, Excel, Outlook
- ArcGIS or comparable geospatial software
- Experience with Business Intelligence software, such as Microsoft Power BI or Tableau for reporting, data visualizations, and analysis
- Statistical analysis using R, Python preferred
- Knowledge of environmental modeling software such as water quality modeling or water resources modeling preferred

Communication

Strong communications skills, verbally and writing, needed to maintain effective working relationships with contractors, consultants, and plant staff. Ability to work independently with broad direction and limited supervision.

Analytical

Ability to interpret and use information from engineering reports, plans, specifications, regulations, and technical documentation.

Mechanical

Use of GPS equipment, handheld field devices and field measurement devices. Field experience conducting water quality sampling preferred.

Mathematical

Advanced skills needed to perform scientific/engineering calculations.

Working Conditions

- Work is to be performed onsite at the South Platte Renew facility and in the field within the South Platte River basin.
- Work is performed primarily in an office setting; however, may be performed on construction sites where there may be exposure to dust, noise, traffic and moving construction equipment; and/or at a wastewater treatment facility where noise, irritants, dust, dirt, bacteria, hazardous chemicals/air/materials and fumes are present.
- Works indoors and outdoors in all weather conditions and over all types of terrain. May be exposed to risks typically associated with working around water, chemicals, electricity and other man-made and natural hazards.
- Full range of body movements including stooping, twisting, kneeling, bending, leaning, reaching, climbing (heights), stretching and working in awkward positions. May stand for extended periods of time. Occasional light lifting (up to 15 lbs.).
- Vision is needed for reading, computer input, recording, and interpreting information such as blueprints and plans; speech and hearing are used to communicate with other employees over the telephone, radio and in person. Work on computers and associated equipment for prolonged periods of time (4-6 hours daily).

Hourly Rate

\$16.80 - 25.20/hour

Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities

The contractor will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor's legal duty to furnish information. 41 CFR 60-1.35(c)