

Company Overview

EG Solutions, Inc. (EGS) is a consulting firm specializing in water management for Florida airports as one of our four focus areas. Airport water management includes surface water quality and quantity and groundwater interactions in an operating environment that requires innovative and non-standard approaches to avoid hazards to aircraft operations. With more than 100 years of combined experience among senior leadership, the EGS team provides those innovative solutions to airport clients throughout Florida. EGS is headquartered in the Sarasota area of Southwest Florida.

Position Summary

The Senior Water Resources Engineer provides analysis, design, permitting, and project management support for a variety of airport water management projects. This position performs technical work that includes hydrologic and hydraulic analyses, water quality evaluations, drainage design, floodplain studies, erosion and sediment control, water quantity and quality monitoring system design and data evaluation, groundwater hydrology, permitting, and construction support.

The Senior Water Resources Engineer works collaboratively with internal staff, clients, contractors, consultants, and regulatory agencies to support successful project delivery. This position requires strong technical and organizational skills, independent thinking, and the ability to effectively manage changing project priorities. Occasional fieldwork and travel are required.

Essential Duties and Responsibilities

Responsibilities include, but are not limited to:

- Perform stormwater system analysis and design for airport projects, including conveyance, storage, and stormwater quality best management practices.
- Perform analysis and calculations to establish water quality treatment efficiencies for non-standard, airport operation compatible design.
- Perform surface water/groundwater interaction analyses to evaluate groundwater mounds, dewatering system design, potable groundwater supply from wells and similar.
- Prepare or direct technical staff preparing technical reports, construction plans and details, construction technical specifications, presentation graphics, and other technical project deliverables.
- Analyze flood-prone areas to identify problems, evaluate alternative solutions, and develop recommended design alternatives.
- Design soil erosion and sediment control practices.
- Prepare grading designs and conceptual site layouts for consistency with stormwater management systems.
- Coordinate with engineering and technical disciplines on multidisciplinary projects.
- Assist with regulatory agency coordination, communication, and permitting activities for assigned projects.
- Provide technical support during bidding and construction, as required.
- Manage assigned projects and ensure deliverables are completed accurately and in accordance with established schedules and deadlines.
- Communicate project progress and coordinate effectively with clients, regulators, subconsultants, and other project stakeholders.
- Attend and participate in project meetings.
- Perform other duties as assigned.

Minimum Qualifications

- Bachelor's or Master's degree in Civil Engineering, Agricultural Engineering, or a related field from an accredited four-year college or university.
- Professional Engineer (PE) licensure.
- 5+ years experience
- Fundamental understanding of water resources concepts, including stormwater management, water quality and chemistry, hydraulics, fluid mechanics, hydrology, geohydrology, and permitting.
- Proficiency with at least one of the following modeling programs: EPA SWMM, Storm Wise/ICPR, or HEC-RAS.
- Proficiency with Microsoft Office applications.
- Valid driver's license.
- Ability to successfully complete required background check to pass airport security badge screening.
- Ability to meet company drug-free workplace requirements.

Preferred Qualifications

- Previous experience working on airport projects.
- Field experience with water quality and quantity monitoring, including system design.
- Experience applying for Environmental Resource Permits and Consumptive Use Permits with one or more Florida Water Management Districts.
- Experience providing construction phase services, including shop drawing reviews, construction evaluation, permit closeouts, and similar.
- Proficiency with Geographic Information Systems (GIS).
- Proficiency with AutoCAD Civil 3D.
- Experience with field and laboratory testing for geohydrologic data and parameters.
- Experience with Computational Fluid Dynamics.
- Experience with artificial intelligence and/or machine learning applications relevant to engineering or project delivery.
- Pilot experience or aviation-related knowledge.

Knowledge, Skills, and Abilities

- Strong technical and analytical skills.
- Ability to define the problem requiring solution.
- Ability to analyze technical problems and develop practical design alternatives.
- Strong organizational skills and attention to detail.
- Ability to work effectively both independently and as part of a multidisciplinary team.
- Strong interpersonal skills and the ability to interact professionally with clients, contractors, consultants, regulatory personnel, and internal team members.
- Ability to coordinate effectively with regulatory agencies and other project stakeholders.
- Ability to manage multiple projects, tasks, and changing priorities.
- Ability to respond quickly and accurately under pressure.
- Ability to meet established project schedules and deadlines.
- Effective written and verbal communication skills.

- Ability to prepare clear and accurate technical documentation, calculations, reports, and project deliverables.
- Ability to evaluate alternative approaches to project design and delivery.

Physical Requirements and Working Conditions

This position operates in a combination of office, remote, hybrid, and field environments depending on project and business needs. Occasional fieldwork at airports, construction sites, and other project locations is required.

The employee must be able to:

- Remain in a stationary position for extended periods while working at a computer.
- Frequently use a computer, keyboard, telephone, and other standard office equipment.
- Communicate effectively with employees, clients, contractors, consultants, regulatory personnel, and other project stakeholders.
- Work outdoors and in active project or construction environments as required.
- Occasionally move materials or equipment weighing up to 50 pounds over short distances.
- Travel to airports, project sites, meetings, training, or other business-related activities as required.
- Adapt to changing priorities and business needs in a fast-paced professional environment.

Travel Requirements

- Occasional local and regional travel is required.
- Travel to airports, construction sites, client meetings, regulatory meetings, and other project locations may be required.
- Additional travel requirements may vary based on project assignments and client needs.
- A valid driver's license is required.

Compensation and Benefits

Compensation:

Highly competitive salary based on experience

Benefits may include:

- Medical, dental, and vision insurance.
- Paid time off and company holidays.
- Retirement savings plan with company contribution or match, where applicable.
- Professional development and certification support.
- Mileage reimbursement and travel-related expenses in accordance with company policy.
- Opportunities for advancement within a growing consulting firm.

Equal Employment Opportunity

EG Solutions, Inc. is an Equal Opportunity Employer and maintains a drug-free workplace.

Employment decisions are made without regard to race, color, religion, sex, national origin, age,

disability, veteran status, or any other protected classification under applicable federal, state, or local law.