

As a Civil Engineer in the Design Department, you will support the design and project management for civil and structural engineering for Ronald Reagan Washington National (DCA) and Washington Dulles International (IAD) Airports, as well as landside highways and bridges.

JOB PROFILE SUMMARY

- Civil Engineering Design
- Works under the general supervision of the Design Department Manager.
- Serves in the Design Department in the Office of Engineering at Ronald Reagan Washington National Airport (DCA) and at Washington Dulles International (IAD) Airport.

Supports civil engineering design and project and contract management, with a primary focus on Aviation Enterprise Capital Construction Program (CCP) projects, as well as projects under the Aviation Enterprise Capital, Operating, and Maintenance Investment Program (COMIP). Performs related functions.

GENERAL RESPONSIBILITIES

- Assists senior staff in the design management activities of the management team employed by the Airports Authority's principal management consultant for major capital and miscellaneous capital projects with civil and structural engineering components.
- Assists in the monitoring new designs in progress and ensures work performed meets Airports Authority Design Manual requirements, building codes, industry standards, and best practices.
- Assists in the analysis of projects to improve schedules, quality assurance, cost control, coordination of interdependencies, progress reporting, and safety.
- As a project engineer, assists with airside and landside paving studies and designs, including include analyses of functional and performance characteristics (e.g. materials, structural strength, maintainability), schematics, specifications, and cost estimates.
- Assists in the review of system and facility studies and designs prepared by airport tenants to ensure conformance with paving, grading, and drainage standards and related design plans.
- Assists in the development of plans for specific design projects covering the development, procurement, and design phases, as well as design support during construction.
- Serves as a Contracting Officer's Technical Representative (COTR) and provides technical advice to managing consultants, prepares technical aspects of contract change orders and modifications, reviews invoices, and acts as a liaison with procurement officials before and throughout construction.
- Ensures a design A/E firm's construction phase services are compliant with submittal procedures and facilitates project meetings, site visits, correspondence, and processing of Requests for Information.
- Performs other duties as assigned.

QUALIFICATIONS

- Three years of progressively responsible experience in civil engineering including:

- reviewing design work to ensure it meets organizational requirements, building codes, industry standards, and best practices;
- preparing or recommending studies and designs that conform with paving, grading, and drainage standards and design plans;
- providing technical advice to help evaluate design and construction bids, perform technical reviews, and select A/E firms;
- assisting on technical aspects of contract negotiations and contract management including technical aspects of contract change orders and modifications and approval of submittals and invoices; and
- coordinating design A/E firms' provision of construction phase services.

KNOWLEDGE, SKILLS AND ABILITIES

1. Knowledge of Civil and Structural Engineering principles and practices and ability to apply it to assisting in program, project, and contract management of airside and landside capital improvement projects. This should include knowledge of constructability, maintainability, and sustainability with functionality.
2. Knowledge of key regulatory requirements and building codes and ability to apply it to landside and airside design and construction issues at the airports.
3. Knowledge of and ability to perform quality assurance/quality control of projects.
4. Ability to perform complex analyses of data and information and make recommendations.
 - Ability to speak and write effectively.
 - Skill in using computer and modern office suite software, specialized systems in civil and structural engineering design work.

PREFERRED QUALIFICATIONS

- Knowledge of airport contracting and engineering procedures and building codes.

EDUCATION

- A Bachelor's Degree in Civil Engineering, or related field, or an equivalent combination of education, experience, and training that totals four years.
- A fully equivalent combination of education and training beyond what is needed to satisfy the education requirement may be used to substitute for up to two of the three years of experience. For example, a Master's Degree may substitute for two years of experience.

CERTIFICATIONS AND LICENSES REQUIRED

- A state driver's license in good standing.
- Licensure as a Professional Engineer in the Commonwealth of Virginia or ability to obtain licensure within 180 days from the date of the Final Offer Letter.

NECESSARY SPECIAL FACTORS

- Must maintain licensure.
- Work is typically reviewed in progress and upon completion for quantity, quality, timeliness, teamwork, customer service, and other factors.
- May be required to work nights and weekends depending on project schedules and operations.
- Is subject to adverse weather conditions and exposed to dirt, grease, odors, hazardous substances, and loud noise when visiting construction sites. Wears protective equipment, as required.