

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5101

TITLE: ENGINEER IV

GRADE: S-29

DEFINITION:

Under general supervision, plans, coordinates and supervises the work of a small staff of engineers and architects, performing complex engineering work OR supervises the work of a large staff performing routine engineering work AND/OR performs advanced specialized engineering work; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

The Engineer IV is distinguished from the Engineer V in that the Engineer IV plans, coordinates and supervises the work of engineers and other technical professionals, AND/OR performs advanced specialized engineering work; whereas the Engineer V serves as branch chief.

The Engineer IV is distinguished from the Engineer III in that the Engineer IV plans, coordinates and supervises the work of engineers, AND/OR performs advanced specialized engineering work; whereas the Engineer III performs the full performance level engineering and project management work.

ILLUSTRATIVE DUTIES:

Depending on the functional area of assignment:

Administers design or construction contracts of at least one large, complex project valued at more than \$75 million;

Negotiates or oversees the negotiation of contracts for the full range of engineering/architectural, environmental and construction services;

Coordinates County facility design or construction work with various architects, engineers, contractors, and consultants; supervises work performed under contract and maintains professional control of projects to completion;

Estimates staffing, budget, schedules and resources needed to meet completion dates;

Supervises subordinate staff of engineers and/or technicians working multiple smaller projects, utilizing either internal staff or external consultants or contractors;

Supervises the review and acceptance of subdivision plans;

Reviews all subdivision plat revisions concerning access, street location, site distance and traffic safety;

Reviews and approves (or rejects with explanation) shop drawings and third party quality control inspection reports submitted pursuant to "Special Inspections Requirements" under the Virginia Uniform Statewide Building Code and the Fairfax County Special Inspections Program;

Reviews the work of other engineers for complex permit applications, environmental analysis, design or construction of Capital Projects;

Reviews and approves plans in accordance with the Virginia Uniform Statewide Building Code;

Conducts field inspections of commercial construction projects to verify compliance with associated building code requirements of the Virginia Uniform Statewide Building Code; Identifies and rewrites deficient and obsolete sections of national, state or local codes; Trains/mentors lower level engineers; Conducts preliminary meetings with design professionals to discuss code issues related to complex projects; Proposes and prepares revisions to technical design standards and ordinances; Prepares and presents detailed reports, studies and complex technical material to diverse groups of stakeholders to gain support and consensus; Prepares and presents reports to political boards and commissions at public hearings; Attends project and administrative meetings and conferences, and makes recommendations concerning budget issues; Serves as a technical advisor in specialty area; Signs off on the work of others that are supervised and signs off on own work as a Professional Engineer or Registered Architect.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Depending on the functional area of assignment:

Knowledge of the principles, theory and practice of civil, architectural, and environmental engineering or urban planning;
Knowledge of computer applications and software (such as CAD) associated with the preparation of plans and engineering computations;
Knowledge of common methods and equipment used in engineering construction and of inspection methods used in reviewing such work;
Knowledge of the principles, practices and techniques relating to construction project management and contract administration;
Knowledge of Virginia Uniform Statewide Building Code and the codes and ordinances which apply to building construction in Fairfax County;
Knowledge of real property descriptions;
Knowledge of environmental testing methods;
Ability to review construction documents, designs and proposals for costs, design requirements and compatibility with County standards, guides and operational needs;
Ability to prepare reports, specifications, and contract documents, studies, and technical analysis and present findings in clear and concise format;
Ability to coordinate long-term, complex project plans;
Ability to plan, coordinate and oversee the work of team(s), subordinates and diverse professional and sub-professional engineering staff;
Ability to communicate and interact effectively with the public, senior County staff and the Fairfax County Board of Supervisors.

EMPLOYMENT STANDARDS:

Any combination of education, training and experience equivalent to:
Graduation from a four-year college or university accredited by the Accreditation Board of Engineering and Technologies with a bachelor's degree in the appropriate engineering or architectural field; PLUS

Five years of progressively responsible professional experience in the appropriate engineering field.

CERTIFICATES AND LICENSES REQUIRED:

A driver's license may be required for positions as identified to the Department of Human Resources.

NECESSARY SPECIAL REQUIREMENTS:

Possession of a valid Virginia Professional Engineer or Architect license. An individual who possesses a valid Professional Engineer or Architect license in another state will be granted a temporary exemption to this requirement pending the Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers & Landscape Architects decision regarding that individual's application for reciprocity. As a Professional Engineer or Registered Architect, signs and seals own work product and/or that of subordinate staff.

Possession of a valid Virginia Waste Management Facility Operator Class II License, or the ability to obtain one within six months of appointment is required for certain positions as identified to the Department of Human Resources.

Possession of a Virginia Department of Housing and Community Development certification as Commercial Building Inspector and as Fire Protection Inspector within 18 months of appointment is required for certain positions as identified to the Department of Human Resources.

Possession of two Plan Review certifications issued by the Virginia Department of Housing and Community Development in either residential building, commercial building, plumbing, electrical or mechanical is required within 12 months of appointment for certain positions identified to the Department of Human Resources.

Possession of a valid Storm Water Management Project Inspector and/or Storm Water Management Plan Reviewer certification within 18 months of appointment is required for certain positions as identified to the Department of Human Resources.