

### Class Concept

This is skilled professional engineering work. Positions in this classification are responsible for consultation, investigation, evaluation and planning, design, design review and approval, and/or determination of environmental and safety impacts of work processes and products (buildings, utilities, systems, sites, mapping, or infrastructures); provide project management oversight, which may include supervision of lower level technical and professional staff; oversee or review environmental, infrastructure and geomatic projects; and manage implementation of projects/plans according to codes and regulations, which may include approval authority. Work assignments may involve unique factors and be lacking in precedence on which to base decisions and may be technically complex as evidenced by a high number of variables and inter-related considerations. Work is often performed independently requiring professional knowledge of complex and/or detailed technical procedures. Work may require considerable public contact to explain standards and regulations, or appearance before a regulatory/judicial body, provide consultation and technical assistance, and may require negotiation to determine the feasibility of project implementation or continuation. Work may require professional licensure or other certifications. Work performed includes exercising judgment and decision-making that directly impacts life, health, safety and/or the environment. Positions can develop and manage program/project plans. Positions provide consultation on issues and requests from clients and/or higher-level professionals to discuss alternative solutions and may supervise/mentor staff.

### Recruitment Standards

#### Knowledge, Skills, and Abilities

- Considerable knowledge and understanding of concepts, practices, and theories used in the engineering specialty area and the ability to use it in practice.
- Working knowledge to oversee compliance regarding multiple specialties.
- Working knowledge of the organizational and business objectives of section/specialty.
- Ability to evaluate and approve moderately complex program/project specifications for completeness, compatibility, compliance with engineering principles, standards, codes and design needs.
- Ability to perform inspections/audits to ensure that proper procedures are followed.
- Ability to manage moderately complex programs/projects for completeness, compatibility, and compliance with engineering principles and design needs and standards.
- Ability to identify and resolve project/program changes.
- Ability to make recommendations and may require ability to make decisions on non-routine engineering and/or program matters or other areas requiring technical engineering expertise.
- Ability to communicate orally and in documents clearly, concisely and organized manner reports addressing moderately complex engineering concepts and facts.
- Ability to provide consultation to clients or others related to the specific program/project.
- Ability to develop and/or create informational products, manage program/project plan and develop and implement short-term strategies.

#### Minimum Education and Experience

Bachelor's degree in an applicable field of engineering from an appropriately accredited institution and three (3) years of progressively responsible experience; or an equivalent combination of education and experience.

#### Necessary Special Qualification

May require registration as a professional engineer by the North Carolina Board of Examiners for Engineers and Surveyors.