

**ENGINEER SENIOR****Nature of Work**

Performs professional engineering work at the administrative and supervisory level in charge of one or more units or a geographically defined area by providing a wide variety of engineering services, or creative works, the adequate performance of which requires engineering education, training and experience in the application of special knowledge of the mathematical, physical and engineering sciences to such services or creative work as consultation, investigation, evaluation, planning and design of engineering works and systems; planning the use of land and water; teaching of advanced engineering subjects, engineering surveys and studies; review of construction projects for the purpose of ensuring compliance with drawings and specifications any of which embraces such services or work, either public or private, in connection with any utilities, structures, buildings, machines, equipment, processes, work systems, projects and industrial or consumer products or equipment of a mechanical, electrical, hydraulic, pneumatic or thermal nature, insofar as they involve safeguarding life, health or property, and including such other professional services as may be necessary to the planning, progress and completion of any engineering services. May involve occasional field activities and performs related work as required.

**Distinguishing Characteristics**

Has full responsibility for developing procedures, organizing operations, planning, scheduling, and evaluating the agency and is ultimately responsible for the integrity of all engineering projects for the units overseen. Performs predominantly administrative duties involving budgeting, staffing, coordinating, and reporting activities. Supervises engineering staff and professional, technical, and support staff. Incumbents must be licensed as a Professional Engineer by the West Virginia State Board of Registration for Professional Engineers as prescribed by WV State Code (Chapter § 30, Article 13).

**Examples of Work**

Directs the activities of engineers and other staff; defines the mission and goals of each unit, may be responsible to stay within an assigned budget, and evaluates the efficiency of the units by results achieved.

Represents the assigned unit(s) before various boards and other groups.

Reviews data analyses to determine subordinates' accuracy in the performance of their work.

Attends meetings with agency management to establish policy and procedure, budget and staffing allotments, and other matters as they pertain to the primary engineering unit.

Attends state and national meetings and seminars to gain and share engineering knowledge.

Coordinates complex construction projects.

Reviews and/or approves subordinates' project analyses of plans and/or contracts for projects; recommends alternative construction methods.

Writes reports detailing recommendations and conclusions from inspections and reviews.

Attends meetings or hearings to observe or attest to engineering issues.  
Reads professional journals and trade publications to gain knowledge of new technologies;  
assigns reading materials to subordinates.

### **Knowledge, Skills and Abilities**

Knowledge of agency policies and practices pertaining to agency jurisdiction.  
Knowledge of equipment and instruments used in various types of engineering.  
Knowledge of fundamentals of various types of engineering.  
Ability to apply engineering principles in solving engineering problems.  
Ability to direct the work of technical engineering staff.  
Ability to communicate effectively, both orally and in writing.

### **Minimum Qualifications**

**Training:** Current license as a registered professional engineer with the West Virginia State Board of Registration for Professional Engineers.

**Experience:** Eight years of full-time or equivalent part-time paid employment as a licensed professional engineer in a responsible capacity in charge of engineering projects.

### **For Reallocation or Promotional Purposes Only:**

**Training:** Current license as a registered professional engineer with the West Virginia State Board of Registration for Professional Engineers.

**Experience:** Eight years of full-time or equivalent part-time paid employment in engineering experience.

### **Areas of Assignment:**

Agricultural Engineering  
Architectural Engineering  
Chemical Engineering  
Civil Engineering  
Electrical Engineering  
Environmental Engineering  
Geologic Engineering  
Industrial Engineering  
Mechanical Engineering  
Mining Engineering  
Petroleum Engineering  
Photogrammetric Engineering  
Public Health Engineering  
Sanitary Engineering  
Structural Engineering

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