



# Engineering Specialist IV

Salary Group: B20  
Class Code: 2130

<u>CLASS TITLE</u>	<u>CLASS CODE</u>	<u>SALARY GROUP</u>	<u>SALARY RANGE</u>
ENGINEERING SPECIALIST I	2127	B17	\$36,976 - \$58,399
ENGINEERING SPECIALIST II	2128	B18	\$39,521 - \$64,449
ENGINEERING SPECIALIST III	2129	B19	\$42,244 - \$68,960
<b>ENGINEERING SPECIALIST IV</b>	<b>2130</b>	<b>B20</b>	<b>\$45,158 - \$73,788</b>
ENGINEERING SPECIALIST V	2131	B21	\$48,278 - \$78,953
ENGINEERING SPECIALIST VI	2132	B22	\$51,614 - \$84,479

## GENERAL DESCRIPTION

Performs highly complex (senior-level) engineering work. Work involves providing technical expertise and coordination for engineering and environmental programs, activities, and projects; evaluating, validating, and reporting engineering and environmental data; planning and design functions; coordinating construction or fabrication work; and conducting inspections and materials research and testing. May serve as a lead worker providing direction to others. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment.

## EXAMPLES OF WORK PERFORMED

Provides technical expertise and coordination for programs, activities, studies, and projects.

Performs engineering or environmental assessments, modeling, and monitoring.

Coordinates and/or collects and samples field data for engineering and environmental projects, and analyzes and validates data.

Coordinates and/or performs detailed design work, and reviews, processes, and transmits design plans.

Coordinates and/or plans, constructs, or fabricates structures, supports, or housings to accommodate specialized equipment.

Coordinates and monitors reviews of ambient air and water quality data to determine data quality and to ensure compliance with policies and procedures.

Evaluates, validates, and reports ambient air and water data for environmental monitoring in compliance with state and federal monitoring regulations.

Reviews plans, specifications, estimates, reports, and related documents for compliance with laws and standards; and makes recommendations for improvements.

Prepares correspondence and technical reports.

Conducts engineering fieldwork, such as surveying, inspecting, drafting, and design; prepares drawings and sketches; and reviews the activities of contractors, operators, or civic authorities.

Conducts materials research and testing activities.

Calculates geometric, hydraulic, grade, and quantity estimates.

Evaluates, designs, and programs computer hardware and software for engineering design applications.

Provides technical guidance involving the evaluation of data, coordination of research, analysis of issues, and preparation of reports and recommendations.

Initiates special studies, reduces facts to specific findings, and recommends solutions to problems.

Assists with project planning and oversight and the development of policies and procedures for area of responsibility.

May develop new or refined techniques, procedures, processes, and/or scientific methods.

May design and develop plans, specifications, and estimates for future projects.

May serve as a lead worker providing direction to others.

Performs related work as assigned.

## **GENERAL QUALIFICATION GUIDELINES**

### **EXPERIENCE AND EDUCATION**

Experience in engineering work. Graduation from an accredited four-year college or university with major coursework in engineering, natural resources, mathematics, or a related field is generally preferred. Experience and education may be substituted for one another.

### **KNOWLEDGE, SKILLS, AND ABILITIES**

Knowledge of engineering and data analysis techniques and theories.

Skill in the use of computers and computer-aided design equipment and in the use and maintenance of scientific instruments.

Ability to apply engineering concepts; to organize and analyze data; to plan and coordinate programs, activities, construction or fabrication work, and projects; to prepare designs and specifications; to evaluate, design, and program computer hardware and software; to communicate effectively; and to serve as a lead worker providing direction to others.