



# Engineering Specialist V

Salary Group: B21

Class Code: 2131

<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
ENGINEERING SPECIALIST IV	2130	B20	\$45,158 - \$73,788
<b>ENGINEERING SPECIALIST V</b>	<b>2131</b>	<b>B21</b>	<b>\$48,278 - \$78,953</b>
ENGINEERING SPECIALIST VI	2132	B23	\$55,184 - \$90,393

## GENERAL DESCRIPTION

Performs advanced (senior-level) engineering work. Work involves planning and 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 and evaluating construction or fabrication work; and conducting inspections, materials research and testing. May supervise the work of others. Works under limited supervision, with considerable latitude for the use of initiative and independent judgment.

## EXAMPLES OF WORK PERFORMED

Plans and coordinates programs, activities, studies, and projects.

Plans and/or performs engineering or environmental assessments, modeling, and monitoring.

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

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

Coordinates detailed design work; and reviews, processes, and transmits design plans.

Coordinates and evaluates plans for, construction of, or fabrication of structures, supports, or housings to accommodate specialized equipment.

Reviews plans, specifications, estimates, reports, testing procedures, and material designs for compliance with laws, specifications, and standards; and makes recommendations for revisions.

Reviews the activities of contractors, operators, or civic authorities.

Reviews correspondence and technical reports.

Reviews, designs, and develops plans, specifications, and estimates for future projects.

Conducts engineering fieldwork, such as surveying, inspecting, drafting, and design; and prepares drawings and sketches.

Monitors materials research and testing activities.

Calculates geometric, hydraulic, grade, and quantity estimates.

Evaluates, designs, and programs computer hardware and software for engineering design applications and/or data management and validation of applications.

Evaluates data for adherence to laws and specified requirements.

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

Provides engineering consultation services and training.

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

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

May evaluate data and conduct research to analyze environmental issues.

May supervise the work of 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, principles, and theories; equipment design and development; and computer-assisted troubleshooting procedures and techniques.

Skill in the use of a computer, computer-aided design equipment, and automated programs; and the use and maintenance of scientific instruments.

Ability to apply engineering concepts; to organize and analyze complex data; to plan, coordinate, and evaluate programs, activities, construction or fabrication work, and projects; to prepare designs and specifications; to evaluate, design, and program computer hardware and software; to perform and review engineering calculations; to communicate effectively; and to supervise the work of others.