



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

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, 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.

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

Prepares correspondence and technical reports.

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

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, and/or data management and validation of applications

Provides engineering consultation services.

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

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, principles, and theories; equipment design and development; and computer-assisted troubleshooting procedures and techniques.

Skill in the use of a computer and computer-aided design equipment, and 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.