



Engineer VI

Salary Group: B27

Class Code: 2157

<u>CLASS TITLE</u>	<u>CLASS CODE</u>	<u>SALARY GROUP</u>	<u>SALARY RANGE</u>
ENGINEER I	2152	B22	\$51,614 - \$84,479
ENGINEER II	2153	B23	\$55,184 - \$90,393
ENGINEER III	2154	B24	\$59,004 - \$96,720
ENGINEER IV	2155	B25	\$63,104 - \$103,491
ENGINEER V	2156	B26	\$69,415 - \$117,397
ENGINEER VI	2157	B27	\$76,356 - \$129,137

GENERAL DESCRIPTION

Performs highly advanced and/or managerial (senior-level) engineering and oversight work. Work involves managing and directing major technical engineering projects and activities and overseeing the review and issuing of permits or authorizations. May supervise the work of others. Works under minimal supervision, with extensive latitude for the use of initiative and independent judgment.

EXAMPLES OF WORK PERFORMED

Manages and/or performs engineering work related to civil or mechanical engineering (in areas such as materials management and construction, traffic, bridge, roadway, or mechanical systems design and maintenance) or engineering work related to environmental, agricultural, or energy engineering (in areas such as water or air pollution, solid waste management, water supply sanitation, insect vector control, energy efficiency and management, and health and radiation control).

Manages and/or prepares, modifies, or reviews engineering or construction plans, specifications, and estimates including those of the highest complexity; and coordinates with research organizations, governmental agencies, departmental staff, industry producers, and suppliers regarding material specifications.

Oversees the review of applications, issuance of permits or authorizations, cost of materials and estimates of geometrics, hydraulics, grades, quantities, and related areas; and approves reimbursements.

Oversees and/or conducts engineering and environmental studies, assessments, field visits, technical reviews, and inspections including those of the highest complexity; ensures safety and regulatory issues have been addressed and resolved; and approves related reports, plans, and specifications.

Oversees contractor performance and reviews, and approves contractor payments.

Designs, installs, maintains, and provides advice on computer systems and equipment; and evaluates, designs, and programs computer hardware and software for engineering design applications.

Plans, develops, and directs engineering projects and studies, including those of the highest complexity; and plans, conducts, and monitors research projects in problem areas.

Provides consultant and liaison services to internal and external organizations regarding new design concepts, solutions to problems, and changes in policies and laws.

Prepares budgets and contracts.

Defines objectives and priorities relating to planning, locating, designing, constructing, and monitoring a transportation system.

May develop and implement new policies, standards, and procedures for engineering and technical work performed.

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 or a related field is generally preferred. Experience and education may be substituted for one another.

KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of engineering principles, practices, techniques, and procedures; of applicable laws, regulations, and rules; of project engineering development; of the design process; and of research, test, inspection, and analysis methodologies.

Skill in the use of computer-aided design techniques and computerized design, evaluation, and analysis tools; in comprehending technical material; in implementation planning; in identifying problems and causes; and in the use of logic to assess options.

Ability to plan, design, and manage engineering projects; to interpret and apply regulations; to use deductive, inductive, and mathematical reasoning; to communicate effectively; and to supervise the work of others.

REGISTRATION, CERTIFICATION, OR LICENSURE

Must be licensed as a Professional Engineer by the State of Texas.