



Engineer I

Salary Group: B22

Class Code: 2152

<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	B28	\$83,991 - \$142,052

GENERAL DESCRIPTION

Performs routine to moderately complex (journey-level) engineering work. Work involves performing or reviewing engineering design, planning, construction, inspection, and maintenance work; and reviewing and issuing permits or authorizations. Works under general supervision, with limited latitude for the use of initiative and independent judgment.

EXAMPLES OF WORK PERFORMED

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).

Prepares, reviews, and interprets blueprints, schematic drawings, layouts, and other visual aids.

Prepares, modifies, reviews, and/or submits engineering and construction designs, plans, specifications, and estimates.

Calculates and/or reviews costs of materials and estimates of geometrics, hydraulics, grades, quantities, and related areas.

Conducts and/or reviews environmental studies, such as assessing air, water, solid waste, and hazardous materials, and pollution control methods; and approves related reports, plans, and specifications.

Conducts technical reviews on engineering proposals and reports.

Conducts field visits, surveys, and inspections; and monitors contractor performance.

Reviews applications, and approves and issues permits or authorizations.

May design, install, maintain, and provide advice on computer systems and equipment; and evaluate, design, and program computer hardware and software for engineering design applications.

May meet with the general public, engineers, developers, landowners, and interest groups concerning zoning; subdivision and building projects; and engineering regulations, standards, or policies.

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; applicable laws, regulations, and rules; and mathematics.

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

Ability to design and evaluate engineering projects, and to communicate effectively.

REGISTRATION, CERTIFICATION, OR LICENSURE

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