

Job Code Catalog: Engineering

As of: 01/01/2018

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETM040	Mgr 1, Civil Engineering	Front Line Mgr	Manager (1,2,3)	Professionals	SWD	N

Job Summary

Manages the engineering plans, designs, costs and the coordination of new transportation construction and/or maintenance activities. Serves as group leader over professional engineers.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Three years of related experience AND demonstrated experience in a lead worker or supervisory role. Note: Professional Engineering (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETM041	Mgr 2, Civil Engineering	Front Line Mgr	Manager (1,2,3)	Professionals	SWD	O

Job Summary

Leads subordinate managers in the planning, organizing, directing, controlling and evaluating the engineering activities of a transportation infrastructure.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Four years of related experience AND demonstrated experience in a lead worker or supervisory role. Note: Professional Engineering (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETM042	Sr Mgr 1, Civil Engineering	Front Line Mgr	Senior Manager	Professionals	SWD	P

Job Summary

Serves as Assistant Office Head in an engineering office providing assistance in directing engineering activities. Provides leadership to subordinate managers and staff.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Five years of related experience AND demonstrated experience in a leadership position. Note: Professional Engineering (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETM043	Sr Mgr 2, Civil Engineering	Front Line Mgr	Senior Manager	Professionals	SWD	Q

Job Summary

Serves as Office Head in an engineering office overseeing engineering activities. Provides leadership to subordinate managers and staff.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Six years of related experience AND One year of demonstrated experience in a leadership role. Note: Professional Engineering (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP020	Environmental Engineer 1	Professional	Professional	Professionals	SWD	L

Job Summary

Under supervision, learns to design, plan or perform engineering duties in the prevention, control and remediation of environmental hazards utilizing various disciplines.

Entry Qualifications

Bachelor's degree in agricultural, chemical, civil, environmental, civil-sanitary or mechanical engineering from an accredited college or university.

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Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP021	Environmental Engineer 2	Professional	Professional	Professionals	SWD	M

Job Summary

Under general supervision, designs, plans or performs engineering duties in the prevention, control and remediation of environmental hazards utilizing various disciplines. Prepares and/or reviews technical reports for environmental compliance or pollution prevention and resource conservation options.

Entry Qualifications

Bachelor's degree in agricultural, chemical, civil, environmental or civil-sanitary or mechanical engineering from an accredited college or university AND One year of experience in professional environmental or sanitary engineering work.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP022	Environmental Engineer 3	Professional	Professional	Professionals	SWD	N

Job Summary

Under broad supervision, designs, plans or performs engineering duties in the prevention, control and remediation of environmental hazards utilizing various disciplines. Prepares and/or reviews technical reports for environmental compliance or pollution prevention and resource conservation options.

Entry Qualifications

Bachelor's degree in agricultural, chemical, civil, environmental or civil-sanitary or mechanical engineering from an accredited college or university AND Two years of experience in professional environmental or sanitary engineering work OR One year of experience at a level equivalent to an Environmental Engineer 2 (ETP021).

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP023	Environmental Engineer 4	Supervisor	Supervisor	Professionals	SWD	O

Job Summary

Under limited supervision, performs engineering duties in the environmental or health field including investigation, evaluation, planning or design of the construction and operation of facilities. May also serve in a lead role.

Entry Qualifications

Bachelor's degree in agricultural, chemical, civil, environmental or civil-sanitary or mechanical engineering from an accredited college or university AND Three years of experience in professional environmental or sanitary engineering work OR One year of experience at a level equivalent to an Environmental Engineer 3 (ETP022).

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP024	Environmental Engineer Spv	Supervisor	Supervisor	Professionals	SWD	N

Job Summary

Supervises, guides, and/or instructs the work assignments of subordinate staff. Performs engineering duties in the environmental or health field including investigation, evaluation, planning or design of the construction and operation of facilities.

Entry Qualifications

Bachelor's degree in agricultural, chemical, civil, environmental or civil-sanitary or mechanical engineering from an accredited college or university AND Four years of experience in professional environmental or sanitary engineering work OR One year of experience at the lower level Environmental Engineer 4 (ETP023) or position equivalent.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP040	Civil Engineering 1	Professional	Professional	Professionals	SWD	I

Job Summary

Under supervision, assists with the plan, design, cost and coordination of new transportation construction or maintenance activities.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university.

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Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP041	Civil Engineering 2	Professional	Professional	Professionals	SWD	J

Job Summary

Under general supervision, performs introductory engineering work assignments. Provides engineering assistance with plans, designs, costs and the coordination of new transportation construction or maintenance activities.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP042	Civil Engineering 3	Professional	Professional	Professionals	SWD	K

Job Summary

Under broad supervision, performs introductory engineering work assignment. Provides engineering assistance with plans, designs, costs and the coordination of new transportation construction or maintenance activities.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND One year of related experience.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP043	Civil Engineering 4	Professional	Professional	Professionals	SWD	L

Job Summary

Under limited supervision, oversees the engineering of plans, designs, costs and the coordination of new transportation construction and/or maintenance activities. May also serve as a lead worker providing training to staff.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Two years of related experience. Note: Professional Engineering (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP044	Civil Engineering 5	Supervisor	Supervisor	Officials and Administrators	SWD	M

Job Summary

Under minimal supervision, oversees the engineering plans, designs, costs and the coordination of new transportation construction and/or maintenance activities. Serves as lead engineer in providing specialized knowledge, training, and support.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Three years of related experience. Note: Professional Engineer (PE) license required.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP045	Civil Engineering Spv	Supervisor	Supervisor	Professionals	SWD	K

Job Summary

Supervises, guides, and/or instructs the work assignments of subordinate staff. Assists with engineering plans, designs, costs and the coordination of new transportation construction and/or maintenance activities.

Entry Qualifications

Bachelor's degree in civil engineering or civil engineering technology from an ABET accredited college or university AND Two years of related experience. Note: Professional Engineer (PE) license required.

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Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP090	Modeler 1	Professional	Professional	Professionals	SWD	J

Job Summary

Under supervision, applies knowledge of science or engineering in the use of mathematical models to simulate natural systems and to analyze the consequences of future conditions and management alternatives and to interpret the results.

Entry Qualifications

Bachelor's degree in a science or engineering discipline with documented proof of experience/proficiency in mathematical modeling and quantitative analysis from an accredited college or university.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP091	Modeler 2	Professional	Professional	Professionals	SWD	K

Job Summary

Under general supervision, applies knowledge of science or engineering in the use of mathematical models to simulate natural systems and to analyze the consequences of future conditions and management alternatives and to interpret the results.

Entry Qualifications

Bachelor's degree in a science or engineering discipline with documented proof of experience/proficiency in mathematical modeling and quantitative analysis or higher from an accredited college or university AND experience/ability to interpret/modify existing models as needed, and to formulate scenarios for model testing and evaluation.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP092	Modeler 3	Professional	Professional	Professionals	SWD	L

Job Summary

Under broad supervision, applies knowledge of science or engineering in the use of mathematical models to simulate natural systems and to analyze the consequences of future conditions and management alternatives and to interpret the results. May serve as lead worker.

Entry Qualifications

Bachelor's degree in a science or engineering discipline with documented proof of experience/proficiency in mathematical modeling and quantitative analysis from an accredited college or university AND ability to interpret/modify existing models as needed and to formulate scenarios for model testing and evaluation.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETP093	Modeler 4	Supervisor	Supervisor	Professionals	SWD	M

Job Summary

Supervises, guides, and/or instructs the work assignments of subordinate staff. Applies knowledge of science or engineering in the use of mathematical models to simulate natural systems and to analyze the consequences of future conditions and management alternatives and to interpret the results.

Entry Qualifications

Bachelor's degree in a science or engineering discipline with documented proof of experience/proficiency in mathematical modeling and quantitative analysis from an accredited college or university AND ability to interpret/modify existing models as needed and to formulate scenarios for model testing and evaluation AND experience in conducting research/evaluation of new or unfamiliar models for potential use in analyzing and support of planning objectives or of actions concerning specific resource characteristics as regulatory tools.

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Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETT010	Drafter 1	Technician	Technician/Uncertified	Technicians	SWD	H

Job Summary

Under direct supervision, learns to prepare drawings and topographical and relief maps used in civil engineering projects, such as highways, roads, bridges, flood control projects, complex building renovation, facility operations and other systems.

Entry Qualifications

Six months of experience in drafting OR One year of high school drafting or mechanical drawing training.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETT011	Drafter 2	Technician	Technician/Uncertified	Technicians	SWD	I

Job Summary

Under general supervision, prepares drawings and topographical and relief maps used in civil engineering projects, such as highways, roads, bridges, flood control projects, complex building renovation, facility operations and other systems. Uses computer aided drafting and design and manual drafting techniques to prepare plans for projects.

Entry Qualifications

One year of experience at the lower level Drafter 1 (ETT010) or position equivalent.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETT012	Drafter 3	Technician	Technician/Uncertified	Technicians	SWD	J

Job Summary

Under broad supervision, responsible for the preparation of drawings and topographical and relief maps used in civil engineering projects, such as highways, roads, bridges, flood control projects, complex building renovation, facility operations and other systems. Uses computer aided drafting and design and manual drafting techniques to prepare plans for projects. May serve as lead worker and train lower level staff. May instruct less experienced drafters in CADD operation and preparation of basic plan elements.

Entry Qualifications

Two years of experience in drafting OR One year of experience at the lower level Drafter 2 (ETT011) or position equivalent.

Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETT013	Drafter Spv	Supervisor	Supervisor	Technicians	SWD	K

Job Summary

Supervises, guides, and/or instructs the work assignments of subordinate staff. Responsible for the preparation of drawings and topographical and relief maps used in civil engineering projects, such as highways, roads, bridges, flood control projects, complex building renovation, facility operations and other systems. Uses computer aided drafting and design and manual drafting techniques to prepare plans for projects. May instruct less experienced drafters in CADD operation and preparation of basic plan elements.

Entry Qualifications

Associate's degree in computer aided drafting or a related field from an accredited college or university OR Three years of experience in drafting OR One year of experience at the lower level Drafter 3 (ETT012) or position equivalent.

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Job Code	Job Title	Function	Sub Function	EEO-4	Salary Plan	Grade
ETT050	Electronics Tech 1	Technician	Technician/Certified	Technicians	SWD	F
Job Summary Under direct supervision, provides electronic support and technical assistance to an agency. Lays out, builds, tests, troubleshoots, repairs, and modifies developmental and production electronic components. Applies principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing.			Entry Qualifications Bachelor's degree from an accredited college or university OR Vocational/Technical degree in electronics or specialized related area from an accredited college OR High school diploma or GED AND Two years of mechanical experience. Note: Some positions require valid driver's license.			
ETT051	Electronics Tech 2	Technician	Technician/Uncertified	Technicians	SWD	G
Job Summary Under general supervision, provides electronic support and technical assistance to an agency. Lays out, builds, tests, troubleshoots, repairs, and modifies developmental and production electronic components. Applies principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing.			Entry Qualifications Bachelor's degree from an accredited college or university AND One year of experience in the installation, repair and development of equipment OR Vocational/Technical degree in electronics or specialized related area from an accredited college AND Six months of related experience OR High school diploma or GED AND Three years of mechanical experience. Note: Some positions require valid driver's license.			
ETT052	Electronics Tech 3	Technician	Technician/Certified	Technicians	SWD	H
Job Summary Under broad supervision, provides electronic support and technical assistance to an agency. Lays out, builds, tests, troubleshoots, repairs, and modifies developmental and production electronic components. Applies principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing. May serve as lead worker.			Entry Qualifications Bachelor's degree from an accredited college or university AND Two years of experience in the installation, repair, and development of equipment from an OR Vocational/Technical degree in electronics or in a specialized related area from an accredited college AND One year of experience OR High school diploma or GED AND Four years of mechanical experience. Note: Some positions require valid driver's license.			
ETT053	Electronics Tech Spv	Supervisor	Supervisor	Technicians	SWD	I
Job Summary Supervises, guides, and/or instructs the work assignments of subordinate staff. Provides electronic support and technical assistance to an agency. Lays out, builds, tests, troubleshoots, repairs, and modifies developmental and production electronic components. Applies principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing.			Entry Qualifications Bachelor's degree from an accredited college or university AND Three years of experience in the installation, repair, and development of equipment OR Vocational/Technical degree in electronics or in a specialized related area from an accredited college AND Two years of experience OR High school diploma or GED AND Five years of mechanical experience. Note: Some positions require valid driver's license.			