

# Engineering/Architectural Technician

**DESCRIPTION OF WORK:** Positions in this banded class perform technical duties supporting engineers and other professionals in areas such as construction, materials testing, design, surveys, and/or program/regulatory compliance. Work functions may include: inspection for compliance and/or code; collection and analysis of field data; testing of materials; review, modification and/or design of plans; analysis of engineering related data, products, and/or functions. Work may include a leadership role.

## **EXAMPLES OF COMPETENCIES: CONTRIBUTING**

**Knowledge-Technical:** Knowledge and understanding of general concepts, practices, and theories used in the technical specialty area under direct supervision. General knowledge of state and/or federal rules and regulations to determine compliance. General knowledge and skill in the use of equipment and software.

**Inspections:** Ability to conduct routine inspections for compliance with contract agreements, standards/codes and specifications. May be subject to review. Ability to maintain standard records; ability to report needs and/or concerns.

**Surveying:** Ability to serve as survey crew member, assist with operating and maintaining equipment, staking out limits, checking alignment and grade; ability to stake and plot parameters; ability to perform land and property searches and plot information.

## **JOURNEY**

**Knowledge-Technical:** Working knowledge and understanding of concepts, practices, and theories used in the technical specialty area with limited supervision. Working knowledge of state and/or federal rules and regulations to determine compliance. Working knowledge and skill in the use of equipment and software.

**Inspections:** Ability to independently conduct moderately complex inspections for compliance with contract agreements, standards/codes and specifications. Ability to maintain detailed records; ability to perform analysis of findings and may require ability to recommend some corrective actions.

**Surveying:** Ability to serve as survey crew leader, independently direct activities of other survey crewmembers in collecting field data on moderately complex surveys.

## **ADVANCED**

**Knowledge-Technical:** Thorough expertise and understanding of concepts, practices, and theories used in the technical specialty area; ability to serve as technical expert while independently accomplishing assigned task. Thorough knowledge of state and/or federal rules and regulations for specific program area, to ensure compliance and provide guidance/interpretation. Thorough knowledge and skill in the use of equipment and/or software.

**Inspections:** Ability to independently conduct complex inspections for compliance with contract agreements, standards/codes and specifications. May

**Testing:** Ability to perform entry-level technical work in a specific materials area or perform sampling, testing and inspection duties to determine the adherence to codes/standards. May require ability to exercise limited decision-making and judgment.

**Communication:** Ability to effectively use verbal and nonverbal skills to express routine or simple technical and/or program concepts and related facts in a clear, concise, organized and persuasive manner. Ability to use appropriate language that is easy for others to understand. Ability to communicate with other staff to ensure that tasks are completed correctly and in a timely manner.

**Testing:** Ability to perform moderately complex technical work in either a specific materials area or perform a range of sampling, testing and inspection duties to determine the adherence to codes/standards. May require ability to exercise a wide range of decision-making and judgment.

**Communication:** Ability to effectively use verbal and nonverbal skills to express non-routine or moderately complex technical and/or program concepts and related facts in a clear, concise, organized and persuasive manner. Ability to modify delivery, language or material to account for the characteristics and needs of the audience. May require ability to lead co-workers in completing projects or surveys. Ability to report survey findings or project status to higher-level management.

**Leadership:** Ability to supervise crew and/or a separate program function of moderate complexity.

**Testing:** Ability to perform the most complex technical work in either a specific materials area or perform a wide range of sampling, testing and inspection duties to determine the adherence to codes/standards. Ability to exercise a wide range of decision-making and judgment.

**Communication:** Ability to effectively use verbal and nonverbal skills to express complex technical and/or program concepts and related facts in a clear, concise, organized and persuasive manner. Ability to modify delivery, language or material to account for the characteristics and needs of the audience. Ability to

require ability to serve as lead or resource. Ability to maintain detailed records; ability to analyze findings and recommends corrective actions. May be required to serve as lead or resource.

**Surveying:** Ability to serve as survey crew leader, independently direct activities of other survey crewmembers in collecting field data on complex surveys.

organize co-workers, outside employees, and/or contracted employees to correct concerns/issues.

**Leadership:** Ability to function in a full supervisory role for direct reports. May require ability to perform/supervise several administrative functions or supervise a separate function of considerable complexity.

**MINIMUM TRAINING AND EXPERIENCE:** Associate's degree in the assigned discipline; or equivalent combination of training and experience. Some positions may require certification. All degrees must be received from appropriately accredited institutions.

**Special Note:** This is a generalized representation of positions in this class and is not intended to reflect essential functions per ADA. Examples of competencies are typical of the majority of positions, but may not be applicable to all positions.