

CAREER

GEOTECHNICAL TECHNICIAN

A geotechnical technician is responsible for assisting geotechnical engineers and other professionals in the collection, analysis, and interpretation of geological and geotechnical data. Their role is crucial in understanding the subsurface conditions of a construction site, which helps in making informed decisions during the planning and execution of construction projects. Their work helps in mitigating risks associated with foundation design, slope stability, and overall structural integrity.

WHAT DOES THIS JOB INVOLVE?

Field investigations

Conduct comprehensive site inspections, including soil and rock sampling and core sample drilling to assess geological conditions

Laboratory testing

Perform detailed laboratory tests on soil and rock samples to determine their strength, composition, and other critical properties

Instrumentation and monitoring

Install and monitor geotechnical instruments to track and ground movement, water levels, and ensure site stability

Data analysis

Assist in analysing geotechnical data and prepare comprehensive reports summarising findings and providing construction recommendations

Site characterisation

Contribute to the creation of detailed geological and geotechnical site models and assess potential geological hazards

Documentation and reporting

Maintain accurate records of all geotechnical data and prepare clear, concise reports for engineers and project managers

Collaboration

Work closely with geotechnical engineers, project managers, and construction professionals to support project planning and design

Health and safety compliance

Follow strict safety protocols and guidelines to maintain a safe working environment during field and laboratory activities

SALARY EXPECTATIONS

Low \$66,051

Average \$90,329

High \$128,481

RECOMMENDED TRAINING

CERTIFICATE IV IN GEOTECHNICAL INVESTIGATION AND TESTING

ASSOCIATE DIPLOMA OF ENGINEERING

BACHELOR OF ENGINEERING MAJORING IN CIVIL AND GEOTECHNICAL ENGINEERING

HOW DO I GET INTO THIS CAREER?

To pursue a career as a geotechnical technician, you typically need a combination of education, training, and practical experience. A bachelor's degree or higher, or at least five years of experience is required.