

<https://mrce.com/job/entry-level-geotechnical-engineer-new-york-ny-3-2/>

## Description

# Geotechnical Engineer

**Employment Type**  
Full-time  
**Date Posted**  
November 9, 2023

Mueser Rutledge Consulting Engineers (MRCE) is seeking geotechnical engineers looking for an opportunity to start and grow a professional career with a leading engineering company in Washington, D.C. MRCE specializes in underground structures, foundations, and waterfront structures. MRCE construction inspection engineers are expected to be professionally minded, responsible individuals who use experience and judgement to provide quality support for construction.

MRCE projects expose engineers to a broad range of challenges, present an opportunity to learn from experienced peers, and creatively contribute to the construction goal. MRCE assignments combine your academic training with engineering responsibility to develop solid engineering experience and mature technical skills. This role will provide you with the experience needed to pursue a career in engineering and construction.

## Essential Functions

- Inspection and logging of exploratory borings in soil and rock. Approving drilling activity, directing sampling and interpreting conditions encountered.
- Observation and documentation of construction for underground structures such as driven piles, drilled piles, sheet pile, tieback anchors, tie-rods, wales, slurry trench and slurry wall excavations, earthwork, and ground improvement.
- Inspection, testing, and approval of excavated subgrades, subgrade preparation and mudmat placement, installation of drainage systems, geotextiles and geogrids, and structural fill.
- Inspection and approval of reinforcing arrangements, concrete placement, and sampling by others.
- Inspection of controlled fill, placement, compaction, and protection.
- Inspection and approval of concrete reinforcement installations / arrangement and size, in accordance with drawings.
- Installation of geotechnical or structural instrumentation in conjunction with MRCE Instrumentation Engineers, and using instrument data in the inspection process.
- Instrument training and use may include Vibrating Wire Piezometers, Casagrande Piezometers, inclinometer casing installations and reading, vibration sensors, crack monitors, assisting with AMTS survey robots and targets, assembly of down-hole instruments.
- Attending site construction meetings on behalf of MRCE to discuss construction problems, review specialty needs, coordinate with other service providers, and understand schedules. Communicating with the site project management team and the MRCE leadership and peer engineer team.
- Abiding by MRCE Safety Program and project site safety requirements.

## Required Qualifications

Demonstrating through actions that personal and peer safety is paramount.

- **Education:** Bachelor's degree in civil engineering from an ABET/EAC accredited program.
- **Experience:** Prior experience in a similar role.
- **Required Licensure or Certification:** Engineer in Training. *GCIE's will be expected to pursue a PE license, but it is not a requirement for being hired into the position.*
- **Required Skills and Experience:**
  - Familiar with geotechnical investigations, borings, sampling, and field testing.
  - Good communication skills: accurate and legible hand sketches,

- accurate and thorough field logging, technical report writing.
- Prior experience inspecting construction (beneficial).
- Familiarity with documenting instrument installations and taking and interpreting instrument readings (beneficial).
- Experience performing field testing for Code Compliance (beneficial).

## **Typical Physical Demands and Work Environment**

*The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions of this position. Reasonable accommodations may be made to enable individuals with disabilities to perform the functions.*

- Navigate jobsite/field environment and office environment.
- Remain stationary for extended periods of time (for instance, in a chair or vehicle), or move often (for instance, walking through a job site), depending on project needs.
- Lift and carry equipment (up to 50lbs).
- Position self in a stooping, kneeling, or crouching manner as well as climb ladders and stairs, for reading instruments.
- Navigate uneven ground and footing conditions (for example, soil / gravel/ mud footing, riprap and slopes, rugged terrain).
- Work in varying weather conditions (for example, cold, hot, rain, snow).
- Wear gloves, use hands, handle or feel objects, tools, machinery and instrumentation.
- Communicate with others; exchange information accurately.
- Operate a computer.
- Operate specialized equipment and instruments.

## **Workplace Location Requirements**

- Work in office and/or field on a long term, daily, or rotational basis.

## **Travel Requirements**

- Travel locally by car or public transportation,
- Travel long-distance involving train or air travel for extended stays.
- Inspection needs may require visits to several sites in one week, or one day. Some assignments may require daily commute to areas outside of the urban centers.
- The Construction Inspection team utilizes the MRCE Washington, DC office between work assignments and throughout a day where several area projects require support. Daily commute transportation to and from the DC office is not reimbursed; costs above that amount are reimbursed (tolls, mileage, etc.). Travel time compensation to reach remote sites is

## **About MRCE**

Mueser Rutledge Consulting Engineers (MRCE) is a leading engineering consultant specializing in geotechnical studies, design of excavation support systems, waterfront structures, and foundations. MRCE is based in New York City and branch offices in Washington DC and Philadelphia, PA. MRCE has extensive experience with complex geotechnical conditions and specialized geotechnical construction methods. Engineers, architects, developers, contractors, lawyers, and public agencies regularly utilize MRCE expertise to define geotechnical issues and provide compatible designs for efficient construction. MRCE services extend well beyond the geotechnical site definition role to include complete foundation and

excavation designs, contract drawings, instrumentation, and construction inspection services.

MRE supports professional development, encourages extracurricular technical activities, and Professional Engineering registration. The firm offers competitive salaries, overtime pay, paid holidays and vacation leave, medical benefits, life insurance, TransitChek commuter benefit, a 401(k) plan, and other benefit options to full time employees. MRCE is committed to providing equal employment opportunities for all qualified persons.

#### **Contacts**

- Send Resumes to MRCE, Attn: Michel Lukas, Human Resources
- 14 Penn Plaza 225 West 34th Street, 6th Floor, New York, NY, 10122 or [hr@mrce.com](mailto:hr@mrce.com)