

Colombia Jobs Expertini®

Geo-technical Design Engineer

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Company: Menard USA - Pittsburgh Office

Location: Pensilvania

Category: other-general

Design Engineers support the sales and operations teams both in the office and in the field. During the design stage, design engineers have the following responsibilities:

Reviewing and becoming familiar with reference background information such as geotechnical exploration reports, project specifications and civil/structural plans for use during design and preparation of the design drawings and calculations.

Analyzing various ground improvement approaches and selecting the option that meets the project criteria which typically includes settlement, bearing capacity, global and sliding stability, liquefaction mitigation, and others.

Developing cross sections, generating soil profiles, and selecting soil properties for use during design.

Performing finite element modeling using Plaxis, as needed, to understand complex soil-structure interactions and estimate deformations and stresses within the soil and ground improvement elements.

Performing all required design calculations and analyses including, but not limited to, global stability, settlement, bearing capacity, and structural and geotechnical capacity of CMCs.

Coordinating or preparing design documents (final design calculations and drawings) adhering to the design criteria.

As field activity progresses, the design engineer's responsibilities also include:

Reviewing all QA/QC (Quality Assurance/Quality Control) from the Field Engineer.

Preparing other standard project documents including specifications, means and methods, and testing submittals.

Responding quickly to questions from the project team and any conditions that are not in accordance with the design.

Throughout the design process and field activities:

Defending and explaining the design approach and decisions made in the field that relate to design.

Responding to comments from reviewers and participating in discussions with other members of the design team to achieve approval and acceptance of the ground improvement system.

Knowledge, Skills and Abilities

Understands of basic geotechnical design and calculation principles.

Proficient with slope stability analysis and finite element modeling.

Proficient with MS Word, Excel and Outlook, familiar with AutoCAD.

Organized in the completion and documentation of all responsibilities.

Ability to effectively communicate in a small group setting, present objectives of projects, policies, facilitate sessions and provide/receive feedback.

Strong communication skills (oral and written) for use with clients, engineers, architects.

Strong problem-solving skills and ability to develop ideas and offer alternatives to facilitate solutions.

Ability to manage multiple tasks, activities and commitments.

Education and Experience Requirement

Master's or bachelor's degree in civil engineering plus 1 – 3 years of geotechnical design experience or coursework prefer. E.I.T (Engineer-In-Training) preferred.

-OR-

Any equivalent combination of education and experience which meets the re

From your first day at Menard, you become a key component of our organization and community, able to make meaningful decisions on your own while being supported and trusted by your management. You'll interact daily with international ground improvement experts as a valued team member in a highly proactive safety culture where your voice, ideas, and opinions will be heard and respected.

Pourquoi nous rejoindre ?

Benefits and Perks:

Competitive salary and annual bonus package, as well as competitive per diem and allowances for field personnel

Full benefit package including medical, dental, eye, life and disability insurance and 401K with generous matching

Health and wellness programs, including free on-site fitness facility

Company stock program, including an opportunity to purchase shares of company stock and receive free bonus shares (subject to vesting period)

Charitable donation program, including yearly company donation/sponsorship to non-profit organizations of employee's choice

Employee referral bonus program

Environmental aware program, including incentives for implemented solutions that optimize natural resources and preserve the environment

Professional Development:

Seminars, technical and skills trainings, and international conference attendance promoted and encourages for all employees

Company-wide safety meeting promoting our proactive safety culture for all employees held each year

Travel opportunities across the country to jobsites and around the world for international conferences

Work Life Balance:

Generous vacation and holiday leave

Remote work flexibility for office based employees

Grow and evolve based on your personal goals and plans within a flexible, agile environment

Opportunities to develop outside of the workplace

Work to live instead of live to work mentality

Entité

Menard USA is a design-build specialty contractor offering ground improvement for sites with problematic soil conditions. Combining creative design and innovative techniques, Menard delivers practical, economical, and sustainable solutions that can be attractive alternatives to deep foundations.-us/

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