

Career Opportunity: Pavement Engineer

GMU Engineers and Geologists

www.GMUgeo.com

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Company Overview

Founded in 1967, GMU Engineers and Geologists (GMU) has built a nearly 60-year legacy as a trusted consultant on some of Southern California's most complex and high-profile projects. Our reputation for technical excellence and practical solutions spans a broad range of services, including Pavement Engineering, Geotechnical Engineering, Structural Engineering, Construction Management, Geotechnical Instrumentation, Laboratory Testing, and Forensic Consulting. Our history includes iconic Southern California projects such as the mass grading and development of master-planned communities like Rancho Mission Viejo, Ladera Ranch, and Rancho Santa Margarita; high-rise office towers for the Irvine Company that shape the Orange County skyline at Irvine Spectrum and Fashion Island; major infrastructure such as Los Patrones Parkway and La Pata; custom homes along the coast line; and pavement improvement projects across numerous cities throughout Orange County and beyond.

Located in Rancho Santa Margarita, Orange County, GMU offers a collaborative work environment where team members engage in diverse, rewarding projects with room to grow. We offer opportunities for professional development, hands-on experience, and meaningful contributions to infrastructure that supports our communities.

Major Responsibilities

Pavement Engineer – Project, Senior, Associate Levels

GMU is seeking Pavement Engineers at the Project, Senior, and Associate levels to join our expanding team. This is a dynamic, multifaceted role that combines technical analysis, fieldwork, and cross-disciplinary project collaboration. Depending on your experience and level of appointment, responsibilities may include conducting and/or managing:

- **Field Evaluations & Investigations:** Perform on-site pavement evaluations through visual surveys, subsurface explorations, and non-destructive testing to collect data for a wide variety of pavement engineering projects.
- **Pavement Testing & Analysis:** Conduct or support testing using advanced tools such as Falling Weight Deflectometer (FWD), Ground Penetrating Radar (GPR), and Dynamic Cone Penetrometer (DCP).
- **Pavement Management Plans & PCI Surveys:** Conduct Pavement Condition Index (PCI) surveys and support the development of pavement management plans for agencies and private clients.
- **Pavement Design:** Assist in or lead the design of new and rehabilitated pavement sections, including flexible and rigid systems.
- **Construction Observation & Materials Testing:** Provide and/or manage field inspection, materials testing, and reporting during construction to verify compliance with project plans and specifications.
- **Data Processing & Technical Reporting:** Compile and analyze lab results, core logs, test data (FWD, GPR, DCP), and contribute to technical reports, specifications, and cost estimates.
- **Forensic Evaluations:** Participate in forensic assessments to determine causes of pavement distress and support the development of corrective actions.

- **Technical Documentation and Reports:** Prepare drawings, reports, appendices, figures, technical plates, and other deliverables that clearly communicate engineering findings, conclusions, and recommendations.
- **Project Management:** Manage projects independently and with supporting staff, including proposals, cost estimates, budgets, schedules, and deliverables.
- **Software:** Use tools such as AutoCAD, ArcGIS, MicroPAVER, StreetSaver, and GPR data processing software (e.g., RADAN) to support analysis, mapping, design, and data visualization.
- **Interdisciplinary Collaboration:** Contribute to GMU's multidisciplinary team of Engineers and Geologists by integrating pavement insights with geotechnical, civil, and structural engineering efforts.

Minimum Requirements

- **Education:** Bachelor of Science in Civil Engineering, with coursework or demonstrated interest in pavement engineering.
- **Experience:** 0 to 10+ years of relevant pavement experience.
- **Communication and Organization:** Strong written, verbal, and interpersonal communication skills, with keen attention to detail and effective time management.
- **Physical Requirements:** Capable of performing physical tasks, including lifting up to 30 lbs. and walking for extended periods on project sites.
- **Transportation:** Reliable vehicle for travel to and from project sites
- **Professional Attributes:** Self-driven with a strong interest in pavement engineering and continuous professional growth. Demonstrates initiative, attention to detail, and the ability to deliver high-quality work independently and within a team.

Preferred Qualifications

- Engineer-in-Training (EIT) certification
- California Professional Engineer (PE) license for higher-qualified candidates
- Master of Science in Civil Engineering with pavement emphasis
- Proficiency in Microsoft Office Suite and Adobe Acrobat
- Experience pavement engineering software described above
- Past field and laboratory testing experience

Compensation and Benefits Package

The base salary range for this position is \$80,000 to \$170,000 annually, depending on qualifications, experience, and role level. In addition to base pay, GMU offers a comprehensive benefits package that includes 401(k) with employer matching and profit-sharing contributions, an annual performance-based profit-sharing bonus, paid holidays, medical, dental, vision, and life insurance, as well as support for professional development, including training, certifications, and continuing education.

How to Apply: Please submit your resume to info@gmugeo.com.