



**ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS**  
***Southern California Section***

*"Connecting Professionals, Practice, and the Public."*

***NEWSLETTER – February 2007***

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**Meeting Date: \*\*\* Thursday, February 8th \*\*\***

**Location:** Airtel Plaza Hotel: 7277 Valjean Avenue, Van Nuys, CA 91406  
Visit the hotel website for directions: <http://www.airtelplaza.com/map-van-nuys.html>

**Time:** 6:00 p.m.-Social Hour; 7:00 p.m.-Dinner; 7:45 p.m.-Presentation

**Cost:** \$37 per person with reservations (no-shows charged full amount), \$40 at the door, \$15 for students with a valid Student ID

**Reservations:** Please call Peter Thams at (805) 644-7976 or email [pthams@wcenviro.com](mailto:pthams@wcenviro.com)

**Speaker:** Terry West, AEG National President

**Topic:** Solid Waste Disposal, Past, Present and Future

**Abstract:**

Solid waste disposal has undergone major improvements since the 1970's. Open dumps were used for disposal, with municipal solid waste (MSW) placed in depressions and excavations that sometimes contained standing water. Abandoned gravel pits were favorite disposal sites. Vectors including rats and birds fed directly on exposed garbage; fires were prevalent and difficult to extinguish. With the advent of sanitary landfills, six inches of soil cover were placed over the face of trash using heavy earth moving equipment at the close of each day's operations. This controlled both vectors and fires as the face was starved of oxygen. No placement was allowed in standing water and the equipment densified the trash. Clayey soils were required for cover material rather than sand, which decreased infiltration and provided clays to help neutralize leachate. Termed natural attenuation landfills it was assumed that soil below the landfill would neutralize the leachate, by absorption and ion exchange.

Natural clay liners proved to be inadequate and often the clay thickness was unable to neutralize all of the leachate. Leachate, collected at the base of the landfill, often leaked out along the edges, following channels made by escaping methane. To retrofit these landfills, perimeter leachate collection systems were installed and methane collection pipes were inserted into the landfill. The collected methane was then flared for proper disposal.

More stringent requirements for new landfills led to basal leachate collection systems placed above the liner to draw off leachate. A drainage layer of coarse, cohesion-less soil was placed over the collection pipes and garbage deposited above this layer. Methane collection pipes extended through the total landfill height with a layered cap placed on the top during landfill completion. This cap consisted typically of a geomembrane with a drainage layer above it and covered with subsoil and topsoil to promote plant growth. Heavy compactors were used to move trash into place, greatly increasing density. Pockets of daily cover were disrupted by removing cover soil at the start of the next day's trash placement, preventing the development of isolated, perched volumes of leachate. Some leachate was recirculated through the trash during operation to encourage decomposition and thereby decrease trash volume. The landfill base typically consisted of a compacted clay liner below the geomembrane liner with the drainage layer located above it.

Hazardous waste landfills require a double liner system at the base of the fill. No free liquids are allowed in the hazardous material. A compacted clay liner is topped by a geomembrane, then a sandy detection layer. Above this is another geomembrane with the leachate collection system above it and finally the waste material is placed. Landfill caps typically are similar to those for MSW landfill.

Future systems for solid waste disposal will involve substantial recycling of leachate and possibly the introduction of air to enhance decomposition. Methane collection will be an important part of the process with the methane processed to pipeline quality natural gas and utilized by a near-by facility. Double liners will be placed in the sump area to prevent leakage where the leachate accumulates. Various recycling procedures may also be involved to reduce solid waste volume transported to the landfill.

**Speaker:**

Dr. Terry West is our current National President, taking office at our annual meeting in Boston in November. Terry is a professor at the Department of Earth and Atmospheric Sciences at Purdue University. His research interests include engineering geology, hazardous-waste disposal, engineering properties of rock, rock slope stability, and remote sensing.

<b>Chair Column</b>
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Roz Munro

Please notice that the February meeting will be on THURSDAY, FEBRUARY 8. This was done to accommodate our speaker, AEG's National President Terry West. He is making a detour on a trip to the southwest so that he can meet with the Southern California Section. We have had the privilege of having the National President attend our meetings most years. It's an opportunity to find out what is happening on the National level, how it can impact you at the Section level, and hear a great technical presentation.

Please also note that the meeting will be held at Airtel in Van Nuys, a venue we have utilized in the past. I hope to have future meetings this year in other geographic locations to provide the opportunity for members to attend a meeting closer to home. Our March meeting is a joint meeting with ASCE. They are the host this year and have their meetings at Steven's Steakhouse in Commerce, so we will be back there. But I would like to receive suggestions for venues in other geographic areas we could use. Please send me an email at [rmunro@mactec.com](mailto:rmunro@mactec.com) if you have any ideas.

I would also encourage those of you who live in the general geographic areas of our Chapters to attend their meetings and become involved. The San Diego, Inland Empire, and Central Coast Chapters are extremely active and have a lot to offer, well beyond offering monthly meetings. There are short courses, field trips, interaction with local regulatory agencies, and more. It's your profession and I hope you will take advantage of these opportunities. You can access them through the national web page [www.aeg.org](http://www.aeg.org), the section web page [www.aegsc.org](http://www.aegsc.org), and the individual chapter web pages. I plan to attend Chapter meetings this year and look forward to meeting those of you I don't already know.

The Southern California Section of AEG, including the Chapters, is a volunteer organization. We are trying to provide services to the membership we think you want. But we need feedback, support, and involvement. Unless we get feedback, it's just a few of us trying to guess what you, as members, want. And if you tell us what you want, we'll need help to implement your ideas. You don't have to be responsible for implementing your idea. But if you can spend a bit of time to help, we can benefit the Association and our Profession.

<b>Overview of AEG Foundation Scholarship Programs for 2007</b>
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Provided by Charles Nestle

This overview provides a general summary of the grants and awards available through the AEG Foundation's scholarship programs in calendar year 2007. See the fund charters on the Foundation's web site for complete information. [www.aegfoundation.org](http://www.aegfoundation.org)

PROGRAM	PURPOSE	AWARD OR GRANT DESCRIPTION	SCHEDULE (subject to revision)
MARLIAVE FUND	SCHOLARSHIP in engineering geology or geological engineering	One award of \$2000.00 given annually to an applicant who is enrolled full time in a university or college degree program that is directly applicable to engineering geology or geological engineering. Recipients are designated as "Marliave Scholars."	Application packages due April 15 Evaluation complete by May 15 Notification by May 22 Check mailed by June 1
TILFORD FUND	SCHOLARSHIP in support of engineering geology field studies	One award annually of \$1000.00 to an undergraduate student, One award annually of \$1500.00 to a Master's program student, and One award annually of \$1500.00 to a Ph.D. program student.  Recipients are designated as "Tilford Scholars."	Application packages postmarked by February 1 Evaluation complete by March 30 Notification by April 1 Distribute checks by April 15
STOUT FUND	SCHOLARSHIP in environmental or engineering geology	One award annually of \$1000.00 to an undergraduate or graduate student.  Recipients are designated as "Martin L. Stout Scholars."	Application packages postmarked by February 1 Evaluation complete by March 30 Notification by April 1 Check mailed by April 15

NOTES (Apply to all AEG Foundation scholarships):

1. Payee may be either the student or the school.
2. Student membership in AEG is required at time of application. A student may receive only one AEG Foundation scholarship in one school year. Scholarship selection committees will coordinate multiple applications.
3. The AEG Foundation is not responsible for delayed or missing mail. Applications not received within ten days of a postmark date deadline cannot be considered.

4. Evaluation of scholarship applications is performed by independent Selection Committees of geologists with wide experience. Decisions of the committees are final.
5. The AEG Foundation is required to issue IRS Forms 1099 to the recipients of scholarship grants; these forms are issued January 1 – February 15 to cover the previous calendar year. Scholarship grant recipients should consult their tax advisors concerning the taxability of AEG Foundation scholarships.

Edition: January 1, 2007

**Save the Date:** The 2<sup>nd</sup> Annual AEG Southern California Section Golf Tournament is tentatively scheduled for Monday, May 21<sup>st</sup>. More details to follow...

### Chapter Meetings

#### **Inland Empire:**

February Meeting: Wednesday, February 21<sup>st</sup>

**Time:** Geologist Orientation – 5:15, Dinner – 6:15, Meeting – 7:00

**Location:** Country Garden Restaurant, Temecula

**Speaker:** Dr. Brady Rhodes, Professor, Department of Geology, CSU Fullerton

**Presentation Topic:** "A Possible Paleotsunami Deposit at Thap Lamu, Southern Thailand"

Please visit the Inland Empire web page at <http://www.aegsc.org/chapters/inlandempire/> for additional meeting information and directions.

#### **Central Coast:**

Monthly meetings will take place on the last Wednesday of every month at Rusty's Pizza in Goleta. Social hour begins at 6 pm, the meeting begins at 7pm.

For more information or to be added to the CA Central Coast Chapter email list, please contact Robert Urban via email at [robert\\_urban@urscorp.com](mailto:robert_urban@urscorp.com).

#### **San Diego:**

For the latest information and updates, please visit <http://www.aegsc.org/chapters/extremesocal/>

**National Business Donation**

- **Platinum** - \$1,000
- **Gold** - \$500
- **Silver** - \$250

Company name, address and contact information are presented in AEG News and section receives 10% of donation. A national donation does not yield a line in our local section newsletter.

**Company & Employment Advertising  
*Newsletter (includes SoCal website posting)***

	<u>Month</u>	<u>Year</u>
▪ <b>Business Card</b>	<b>\$10</b>	<b>\$100</b>
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▪ <b>Full Page</b>	<b>\$50</b>	<b>\$500</b>

**SoCal website posting only**

**\$20/month**

\* The deadline for submitting an advertisement for next month's newsletter is Monday, March 5<sup>th</sup>

**YEAR 2007 CONTRIBUTORS NEEDED**

Contributions from corporations and individual members are greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section treasurer, Peter Thams.

**2007 MEMBERSHIP RENEWAL**

For those of you who have not yet renewed (**the deadline was November 1**), are unsure about your membership status, or did not receive your membership dues statement, please contact AEG Headquarters at [www.aegweb.org](http://www.aegweb.org). You can renew your membership online. Please update your membership if you wish to continue to receive future issues of the newsletter.

**EMPLOYMENT OPPORTUNITIES & ADVERTISING**



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MACTEC Engineering and Consulting, Inc., a leading national geotechnical and environmental firm, is seeking Staff and Project Engineering Geologists for the Los Angeles office Geotechnical Division.

STAFF GEOLOGIST: The position requires a BS, MS preferred. 1 to 2 years experience is desirable. (Job ID 1251)

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MACTEC offers excellent benefits and salary commensurate with experience. Please email, fax, or mail your resume to:

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fax (323) 889-5398  
dtliu@mactec.com

Job descriptions and requirements at: <http://www.mactec.com/careers/>

*EUC*

**Eberhart / United Consultants**, a southern California geotechnical consulting firm serving its clients for over 25 years, has the following career opportunities:

PROJECT GEOLOGIST: position requires BS with 3 years experience in public/civil works, commercial and residential projects. Duties include field mapping, subsurface exploration, office analysis, proposal and report preparation, and project management.

SENIOR ENGINEERING GEOLOGIST: position requires CEG registration and 8 years experience in public/civil works, commercial and residential projects. Duties include managing/performing geologic investigations, field mapping, subsurface exploration, office analysis, proposal and report preparation, and project management.

We offer a competitive compensation & benefits package for qualified candidates. For immediate consideration, mail, FAX, or email your resume & salary history to:

*Eberhart / United Consultants*  
1031 Segovia Circle  
Placentia, CA 92870  
FAX (714) 632-0955  
[dre@euc-inc.com](mailto:dre@euc-inc.com)



**PACIFIC SOILS  
ENGINEERING, INC.**

Pacific Soils Engineering, Inc. is seeking all levels of engineering geologists for large land development projects in Los Angeles/Orange/San Diego/San Bernardino/Riverside/Ventura Counties. Knowledge of current grading standards and geologic engineering principles, good verbal communication and writing skills, and leadership skills are helpful. Registration not required. Salary and compensation package commensurate with experience and skills. Please fax resume to (714) 220-9589, or email: [info@pacificsoils.com](mailto:info@pacificsoils.com), Attention: Manager of Geotechnical Services.





**Lawson & Associates  
Geotechnical Consulting, Inc.**

Lawson & Associates Geotechnical Consulting, Inc.

2045 Royal Avenue, Ste. 125  
Simi Valley, CA 93065  
Tele: (805) 579-3434 Fax: (805) 579-3435  
Email: [kesmond@lqcgeo.com](mailto:kesmond@lqcgeo.com)

Website: [www.lqcgeo.com](http://www.lqcgeo.com)

LGC is looking for dynamic individuals to join our team and work on some of Orange, Los Angeles, Ventura, San Bernardino, Santa Barbara and Kern Counties' most interesting and technically challenging projects. If you are an experienced geotechnical professional, or just starting your career, please do not hesitate to contact us. All inquiries will be considered in the utmost confidence. We look forward to hearing from you.

An intensive three-day short course

## Advanced Aquifer Testing Techniques Featuring **AQTESOLV™**

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Conducting aquifer tests in complex hydrogeologic settings such as heterogeneous or fractured media is a key element to site characterization, water resources assessment and remediation system design. However poorly planned aquifer testing programs often lead to suspect data or unanswered questions after the field work is complete. Even when you are confident of the geologic conditions, you may have difficulty designing effective aquifer tests, running field equipment or selecting the best available model to analyze the test data. Where can you turn to improve your approach and skills for aquifer testing?

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EOE M/F/D/V

Leighton provides the full range of services including, geotechnical engineering, geologic studies, environmental assessment and remediation, and materials testing and inspection. Our client base is a broad spectrum from commercial developers, land developers, residential builders, cities, counties, and the State of California.



Goldline Eastside Light Rail, Los Angeles



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Caltrans District 7, Los Angeles



Port of Long Beach

### Geosoils Consultants, Inc.

**Staff Level Geologist:** Geosoils Consultants, Inc. is looking for a staff level engineering geologist for work on a variety of engineering projects in Los Angeles/Ventura Counties. Geosoils Consultants, Inc. is located in Van Nuys, California. Contact George Larson, Rudy Ruberti or Dave Sherman for further information. 818-785-2158.



## Career Opportunity for Engineering Geologists

URS is a multi-disciplinary firm serving both public and private clients worldwide. The geotechnical practice of URS is the combined resources of the previous Woodward Clyde and Dames & Moore – two prestigious geotechnical practices with strong, deeply rooted tradition and technical reputation.

Our Los Angeles Office has immediate opportunities available for a wide range of experienced ENGINEERING GEOLOGISTS (from Project to Principal levels) to support or manage high-profile and major geotechnical projects involving schools, hospitals, dams, ports, and infrastructure developments.

Duties will vary depending upon level of experience; however, duties would ultimately include client contact, proposal and technical report writing, subsurface field investigations, fault trenching and mapping, field observation and testing, data collection, engineering analysis, project management and mentoring junior geologist staff.

The ideal candidates should be a California Certified Engineering Geologist (CEG) and should have at least 3 years of experience (after obtaining CEG license), a focused vision towards company and career growth, a genuine and conscientious work ethic, good organization skills, and be adept to a fast-paced, team oriented environment. Candidates should possess a strong academic background in engineering geology, good written/verbal communication and team work skills. Candidates must have own vehicle and a valid California Driver's license.

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Or apply on-line at  
<https://www.urs.apply2jobs.com/>  
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CONSUMER AFFAIRS, BOARD OF REGISTRATION FOR GEOL & GEOPH

There are 2 Open Exam Bulletin(s) listed for this department.

Title: Executive Officer, Board of Geologists & Geophysicists  
 Salary: \$5,884.00 - \$6,384.00  
 Posted: 11/15/06

Job Description:

Position is exempt from Civil Service and serves at the pleasure of the 7-member Board. Candidates must be able to apply the management, administrative and organizational skills necessary to carry out the policies of the Board. Administrative background and supervisory or management experience with government boards, including legislative affairs, budgeting and demonstrated effectiveness working with diverse populations. Excellent communication skills a must. Knowledge of current issues, laws and trends and regulations in the Geology and Geophysicists field and licensure as a Geologist or Geophysicist is desirable.

**HOW TO APPLY:** Send a letter of interest, a current resume, a standard State Application Form STD 678 (with original signature), and three letters of recommendation to the contact information contained in this announcement. Review of applications will begin immediately. Only the most qualified candidates will be interviewed.

Additional Information:

Working Title	Position Number
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Location	County
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Timebase	Tenure
Full Time	Permanent month(s)
Final Filing Date:	Department Link:
Until Filled	<a href="http://www.dca.ca.gov">http://www.dca.ca.gov</a>
Contact Unit/Address	Contact Name/Phone
Dept. of Consumer Affairs - Human Resources 1625 N. Market Blvd, N321 Sacramento, 95834	Jeffrey Sears (916) 574-8307 <a href="mailto:jeffrey_b_sears@dca.ca.gov">jeffrey_b_sears@dca.ca.gov</a>

**Notice:** If you are not a current or former State employee, you must first take an examination to obtain list eligibility. This does not apply to Student Assistant vacancies. [Learn all about it.](#)

Equal Opportunity to all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or sexual orientation.

It is the objective of the State of California to achieve a drug-free state workplace. Any applicant for State employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.



Since 1986, clients have turned to Ninyo & Moore for innovative solutions to complex geotechnical and environmental challenges. As a leading geotechnical and environmental sciences engineering and consulting firm, Ninyo & Moore provides specialized services to clients in both the public and private sectors. With offices in Colorado, California, Nevada and Arizona, the firm is fully committed to being responsive, cost-efficient, and thorough in meeting its clients' project needs and objectives.

Ninyo & Moore Geotechnical & Environmental Sciences Consultants has immediate employment opportunities in our Denver, Irvine, Las Vegas, Oakland, Phoenix, and San Diego offices. Positions include Engineers and Geologists of all levels, including **Staff Engineers and Geologists, Project Engineers and Geologists, Staff and Project Environmental Scientists, Chief Geotechnical Engineer, and Construction Field and Laboratory Technicians.**

The successful candidates should have a BS or MS degree for staff-level positions and five years or more of experience for project to senior-level positions. The candidates should be detailed oriented and have excellent verbal and written communication skills. Professional Engineer (PE) and/or Professional Geologist (PG) registrations preferred.

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**CERTIFIED ENGINEERING GEOLOGIST:** Position requires CEG registration and 7-10 years professional experience in residential, commercial, and public works projects. Strong candidate will have demonstrable track record in hillside geology, slope failures/landslides, private disposal system design, environmental, and fault studies. Excellent report writing skills necessary. Supervision of project geologists.

**PROJECT GEOLOGIST:** BS & 2-5 years experience in commercial/industrial, public/civil works, and residential projects required. Tasks include research, field exploration, analysis & calculations, proposals and client interface, generating reports. Multifaceted work alongside principals. Work towards RG & CEG certification recommended.

**GEOTECHNICAL ENGINEER:** Position requires Civil Registration and work towards GE Reg. Candidate will have BS/MS and 5-7 years experience in foundation design, slope stability, shoring design, calculations, report writing, and project management.

**ENVIRONMENTAL ENGINEER:** Candidate will have BS and 3-5 years experience in site assessments, contamination investigation, and remediation consulting. Strong candidate will have exceptional teamwork and project management skills and report writing ability. CAD ability recommended.

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# NEW COURSE FORMAT



## COURSE FORMAT

The courses have been designed to illustrate the principles of cone penetration testing through the evaluation of case histories and worked examples. Our new format will allow for frequent opportunities for audience participation and open discussions of technical methodologies as they apply to project scenarios.

## COURSE PURPOSE

Site characterization is the basic first step for any geotechnical or geo-environmental study. This short course will provide engineers and geologists with the knowledge and background to plan and supervise site investigations and to interpret CPT data.

## COURSE ATTENDEES

The courses are intended for Geotechnical Engineers and Engineering Geologists working with foundation design, liquefaction, and geotechnical site investigation and Geologists, Engineers, and Environmental Professionals working with environmental site assessment and remedial design. Each attendee will earn eight (8) Professional Development Hours (PDH's) for participation in the short course.

# A SHORT COURSE ON Environmental and Geotechnical CONE PENETRATION TESTING

Gregg In Situ, Inc. is pleased to announce the scheduling of our 2007 short courses on cone penetration testing (CPT) in environmental and geotechnical site investigations.

## COURSE CONTENT

### Environmental Site Investigation

- Soil Stratigraphy
- Piezometric Pressure
- Evaluation of Contamination Using:
  - UVIF
  - MIP
  - Soil Sampling
  - Groundwater Sampling
  - Vapor Sampling
- Field Demonstration

### Geotechnical Site Investigation

- Shallow Foundation Design
- Liquefaction Evaluation
- Pile Design
- Other In Situ Tests
- Field Demonstration

**Primary  
COURSE INSTRUCTOR:  
Peter Robertson, Ph.D.**

**Monday - April 9, 2007**

**HYATT REGENCY - HUNTINGTON BEACH**

21500 Pacific Coast Highway  
Huntington Beach, California 92648

**8:30 a.m. to 5:00 p.m.**

*Registration/continental breakfast at 8:00 a.m.*

Both Environmental & Geotechnical courses will be conducted simultaneously. Register for one course only.

**Presented by:**  
Gregg In Situ, Inc.  
Phone: (562) 427-6899  
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www.greggdrilling.com

ADDITIONAL COURSE LOCATIONS/DATES -- CONCORD: APRIL 2, 2007 and SACRAMENTO: APRIL 4, 2007

Visit our web site at [www.greggdrilling.com/seminars.htm](http://www.greggdrilling.com/seminars.htm) for further details and alternate registration forms.

## 2007 SHORT COURSE REGISTRATION FORM — HUNTINGTON BEACH

Payment must be received by **MARCH 13, 2007** to qualify for early registration.

\$195.00 - early registration fee OR \$270.00 - late registration fee

**COURSE DATE: APRIL 9, 2007**

(Indicate course attending by checking the corresponding box. Register for one course only.)

Environmental Site Investigation OR  Geotechnical Site Investigation

**Mail/Fax your completed registration form to:**

(Make checks payable to: Gregg In Situ, Inc.;

If faxing please include a copy of check)

**GREGG IN SITU, INC.** ATTN: Maryann Keating  
2726 Walnut Ave. E-MAIL: [mkeating@greggdrilling.com](mailto:mkeating@greggdrilling.com)  
Signal Hill, CA 90755

Attendee Name: \_\_\_\_\_ Title: \_\_\_\_\_ Company/Agency: \_\_\_\_\_

Address: \_\_\_\_\_ City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Payment information must be completed for processing: (Check one)  My check # \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ is enclosed.

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Registration fee includes seminar, reference materials, continental breakfast, lunch, break refreshments, and hotel parking. Class size is limited; early registration is advised. On-site registration will be on a space available basis. Gregg In Situ, Inc. reserves the right to cancel any seminar. If a course must be cancelled, a full refund will be issued. If registrant is unable to attend, a charge of \$75.00 for any cancellation within 10 business days of the seminar will be assessed. No refund for cancellation within three business days of the seminar will be offered. Notice of cancellation or substitution must be submitted in writing, listing attendee name and seminar date.



**Sierra Geotechnical Services Inc.**, a geotechnical engineering and materials testing firm, is currently seeking qualified candidates for the following positions in our Mammoth Lakes and Bishop offices.

### **Staff Engineer**

Candidate must have 2 to 3 years experience. BS required. Must have experience in foundation design, calculations, report writing, construction inspection, and project management. CAD ability recommended.

### **Laboratory Technician**

Lab responsibilities will include monitoring and completing various soil tests, preparation and compression of concrete cylinders, filling out reports, etc... Previous experience preferred

### **Materials Testing Technician**

Material Testing Technicians will be responsible for field testing work on soils and concrete. Candidate must have at least 1 year experience in grading inspection and/or concrete sampling. Nuclear gauge certification and/or ACI certification preferable. Candidates must have a good driving record and a valid Drivers License since you will be operating a company vehicle.

SGSI offers an excellent pay and benefits package commensurate with experience and skills. Apply by emailing resume to [info@sierrageotechnicalinc.com](mailto:info@sierrageotechnicalinc.com) or fax to (760) 934-8832



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