

AEG Inland Empire Chapter Newsletter

of the Southern California Section

February 2017 Vol.13 No. 2

www.aegsc.org/chapters/inlandempire

February 2017 Meeting Announcement

“United States Forest Service Burned Area Emergency Response (BAER) program using local and recent fire examples.”

Robert G. Taylor, P. G.

Forest Hydrologist, DWR FERC IDT Leader
Forest Service, San Bernardino National Forest Supervisor's Office

Wednesday, February 15th, 2017

Location: Pinnacle Peak Steakhouse, Colton, CA

See speaker & meeting details on pages 3 - 4

RSVP to aeginland@gmail.com by 5:00pm, Tuesday, February 14, 2017.

INSIDE

Pages: 2 Chair Message

3 - 4 Meeting Information

5-12 Other Meetings & Announcements

The AEG-Inland Empire Chapter officers and members owe thanks to Dr. Norman Meek, Chair of the Geography Department at Cal State San Bernardino for his presentation, "Evidence for Middle Pleistocene surface uplift of the northern Cady Mountains, central Mojave Desert, CA" at our January meeting. In my opinion, Dr. Meek's presentations typically involve a local (IE) geologic area, are very well put together, and utilize straightforward scientific principles and techniques to support his hypotheses. Thank you again, Dr. Meek.

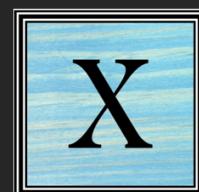
As I mentioned at last month's meeting, under the new AEG bylaws, we have the opportunity to become a Chapter within the Southern California Region. The petition that some of you signed (and thank you, if you did) was incorporated with additional information in a letter formally requesting to form a chapter. This was signed by me and sent electronically to AEG National on Monday, January 30th. I see no reason that our request would be denied or held up, but I'm still in the "holding my breath" mode. Will keep you posted on our progress. In addition, as part of the 60th anniversary of AEG, they are requesting historical information about all of the Chapters to be included in the upcoming April issue of AEG News. We have a deadline of Wednesday, February 15th to submit our information and I have been in contact with some of you gathering information about the historical aspects of our Chapter, which I believe was started in 2005, along with the Central Coast and San Diego Chapters, as an offshoot of the old Southern California Section. As far as I know, the Inland Empire Chapter is the sole survivor. Thank you all for that. More to come.

I recently participated as a judge in judging science projects at a local elementary school. I want to thank Carol Lerner, Coordinator of the Science Ambassador Program at UCR College of Natural and Agricultural Sciences and the Science Ambassadors who showed up and assisted in the judging process. Projects that were rated highest would move onto higher levels in the process, ultimately ending at the County-wide science fair. Considering this was an elementary school, the projects were put together by 3rd through 5th graders. Having not done this for many years, it took me a little bit to understand the specific components under each section on the County-provided judging form. Now, as I understand it (from my wife, who's the Librarian at the school), this is the first year the school has participated. Therefore, the judging instructions from the teachers in charge were somewhat like "the blind leading the blind", but overall, I think we did a respectable job identifying the top projects. Where I'm going with all this is, as we were nearing the end of our allotted time, the school science teacher arrived (I'm not sure how involved she was in establishing or describing the ground rules to the teachers in charge) and identified numerous projects as "demonstrations" as opposed to "experiments" with a statement that "demonstrations" would be rejected at higher levels of judging. I hadn't really thought about it while judging projects, but she was correct on further review. In thinking about it, I believe a "demonstration" is an example of a scientific principle or process, whereas an "experiment" is an attempt to prove an untested or unproven portion of a scientific principle or process. I guess my point to all this is, it would have been nice to have this information before we started. To be honest, I felt like somewhat of a dumbass for not recognizing it on my own but, I'll know better next time.

I look forward to seeing you at our February meeting at Pinnacle Peak in Colton where I believe our speaker will be Robert Taylor of the U.S. Forest Service, although I don't have the title of the presentation as I submit this to our Editor. Thank you for your attention.

Greg Johnson
Chair AEG Inland Empire Chapter

Brought to
you by:



Project X
Corrosion Engineers
Ed Hernandez, PE, NACE CCT
MBE • DBE • SDB • SBE
Soil / Water Lab – Failure Lab
Corrosion Control Consulting

Phone : 213-928-7213 • info@projectxcorrosion.com
Field Investigations • Anode Testing • Weird Science
Corrosive Bacteria • Cathodic Protection Surveys

FEBRUARY 15, 2017 SPEAKER

Robert G. Taylor, P. G.

Forest Hydrologist, DWR FERC IDT Leader

Forest Service, San Bernardino National Forest National Supervisor's Office

"United States Forest Service Burned Area Emergency Response (BAER) program using local and recent fire examples."



San Bernardino National Forest



WEBLINK

In lieu of an abstract, for more information about the BAER program, including reports Robert Taylor has been involved in, please visit the San Bernardino National Forest Burned Area Emergency Response page at the link provided below.

<https://www.fs.usda.gov/detail/sbnf/landmanagement/?cid=stelprdb5433862>

SPEAKER BIOGRAPHY

Robert Taylor found his direction at the age of 16 while a Boy Scout earning Soil and Water Conservation merit badge. He followed this passion to U.C. Davis, writing his own major, Environmental Hydrology (1994), and followed it with a Master's in Groundwater Hydrology (1997) from the New Mexico Institute of Mining and Technology.

After spending a few years in consulting, research at a National Lab, and adjunct university teaching, he became a State of Idaho regulator (equivalent to Water Board) working RCRA, CERCLA, SDWA, CWA projects.

In 2005 he moved to southern California to work for the U.S. Forest Service, putting in broad hydrologic and mathematical talents to a fast-paced bureaucracy dealing with implementing the Multiple Use – Sustained Yield Act and the Clean Water Act for the San Bernardino National Forest, and joined the fire organization conducting post-wildfire landslide risk assessments (under BAER) and incident management of the most complex fires (Type 1).

AEG-IE
Chapter Officers

Chair

Greg Johnson

LA County DPW

(626) 458-7986

gjohnson@dpw.lacounty.gov

Vice Chair

Jeff Fitzsimmons

Lahontan RWQCB

(951) 212-5018

geojeff08@att.net

Vice Chair South

Andrew Robinson

University California Riverside

(951) 827-3434

a.robamson@gmail.com

Treasurer

Mark Doerschlag

Peak Group

geofantasy@aol.com

Secretary

James Burns

CSUSB

aeginland@gmail.com

(760) 981-9621

Newsletter Editor

Phuong Schmit-Kallas

Petra Geosciences, Inc.

(951) 312-4711

pschmitkallas@petra-inc.com

phuong_k_chau@yahoo.com

The AEG Inland Empire Chapter *Newsletter* is a monthly publication of the Inland Empire Chapter of the Southern California Section, Association of Environmental and Engineering Geologists. For more information visit the Chapter website: <http://www.aegsc.org/chapters/inlandempire>.

Submittals: Deadline, 25th of the month. Employment notices, job position announcements, and advertisements can be posted for a minimal fee. *Newsletter circulation exceeds 300 people in greater inland areas of Southern California, and elsewhere.*

E-Mail Address changes: aeginland@gmail.com

AEG-IE FEBRUARY MEETING DETAILS

Date/Time Wednesday, February 15, 2017.

Social hour 5:30 - 6:30

Dinner 6:30 - 7:15

Announcements 7:15 -7:30

Talk and Q&A 7:30 - 8:30

Location Pinnacle Peak
2533 La Cadena Drive South
Colton, CA 92324

Cost \$25 with RSVP
\$10 per student with RSVP and proof of valid student ID
\$30 for walk-ins without RSVP

RSVP aeginland@gmail.com
Deadline is COB Tuesday, February 14, 2017
Individuals who RSVP but do not attend may be charged if the final attendance does not meet the restaurant guarantee.

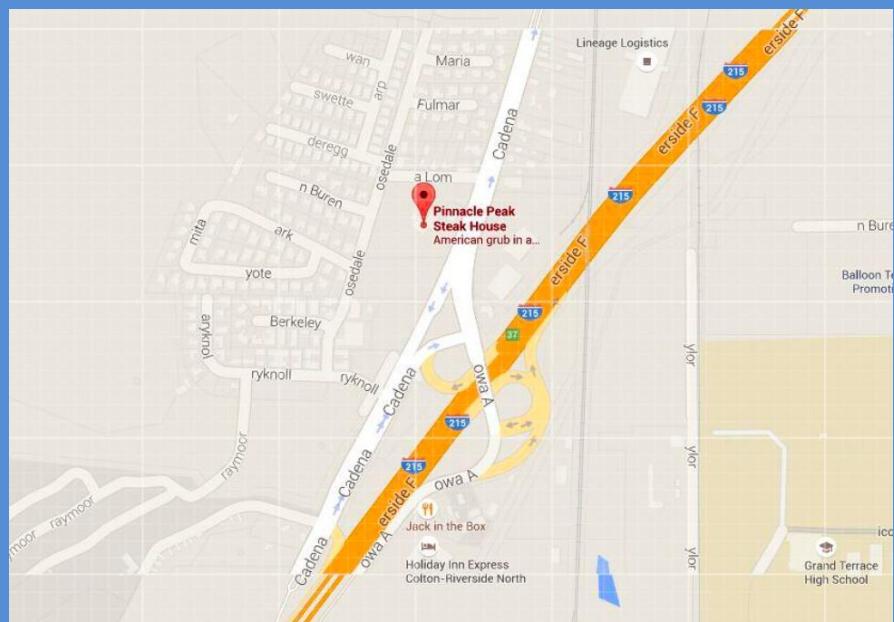
DIRECTIONS TO THE MEETING LOCATION

Directions: From I-215 Heading South:

1. Exit Barton Road and merge onto La Crosse Ave
2. Turn Right onto Barton Road
3. Turn slight Left onto La Cadena Drive South
4. Destination on right. (2533 La Cadena Drive South).

Directions: From I-215 Heading North:

1. Exit South Iowa Avenue.
2. Turn Right onto South Iowa Avenue
3. Continue onto La Cadena Drive South
4. Make a U-Turn at West La Loma Street
5. Destination on right. (2533 La Cadena Drive South).



OTHER MEETINGS

AEG-Southern California Section: February 15, 2017 (Wednesday). “*Introducing ultra-large pre-cast concrete, gravity and reinforced soil retaining structures and concrete fences*”, Mr. Steve Miller, of Jensen Precast Retaining Wall Products Group, Old Gyumri Restaurant, 4441 San Fernando Rd., Glendale, CA 91204, 818-550-0448. For more information visit: <http://www.aegsc.org/>

AEG-Inland Empire Section: February 15, 2017 (Wednesday). “*United States Forest Service Burned Area Emergency Response (BAER) program using local and recent fire examples*.” Speaker: Robert G. Taylor, Forest Hydrologist, DWR FERC IDT Leader, Forest Service, San Bernardino National Forest Supervisor’s Office. For more information visit: <http://www.aegsc.org/chapters/inlandempire/>

ASCE: (Orange County Branch). February 15, 2017 (Wednesday). ASCE OC YMF February 2017 Board Meeting at Jacobs (OPEN TO ALL). For more info visit: <http://www.asceoc.org/>

ASCE: (San Bernardino-Riverside County Branch). February 17, 2017 (Friday). ASCE SB/R YMF Technical Tour- Caltrans Testing Laboratory. For more info visit: http://www.asce-sbriv.org/asce_new/calendar.html

ASCE: (San Diego County Branch). For more info visit: <http://www.asce-sd.org/>

EERI: (San Diego). March 29-30, 2017 (Wednesday-Thursday). 2nd Workshop on Geotechnical Earthquake Engineering “*Dealing with the Consequences of Liquefaction*”, Honoring the lifetime achievements and contributions of Professor Kenji Isha. For more info, visit: <http://sandiego.eeri.org/>

GRA: (San Diego Branch) February 28, 2017 (Tuesday) Branch Meeting: California Climate, Groundwater and their Interrelated Future. For more info, visit www.grac.org/

IGS: March 2, 2017 (Thursday) March Meeting. Project X Corrosion Engineering. Speaker: Ed Hernandez, P. E. For more info visit: <http://www.inlandgeo.org/>

LA Basin: February 23, 2017 (Lunch Meeting). “*New Developments in Reconstructing Southern California*”. Speaker: Raymond (Ray) Ingersoll, UCLA Earth, Planetary, and Space Sciences. For more info visit: <http://www.labgs.org/>

SCGS: For more info visit: <http://www.southcoastgeo.org/meetings.shtml>

SME: For more info visit: <http://mine-engineer.com/socalmining/>

SDAG: February 15, 2017 (Wednesday). “*Use of fossil, cuttings, and geophysical logs obtained from deep wells to develop the first 3D geologic model of the San Diego-Tijuana area, USA and Mexico*”. Speakers: N. Scott Rugh, Dr. Geoff Cromwell, and Wes Danskin. For more info visit: <http://www.sandiegogeologists.org/Meetings.html>

YOUR AEG OFFICERS

2016-2017

Chair
Vice Chair, North
Vice Chair, South
Treasurer
Secretary
Newsletter Editor

Greg Johnson
Jeff Fitzsimmons
Andrew Robinson
Mark Doerschlag
James Burns
Phuong Schmit-Kallas

LA County DPW
Lahontan RWQCB
UC Riverside
Peak Group
CSUSB
Petra Geosciences



AEG MEMBER BENEFITS

◆ Conferences -

You will find value at both Annual Meetings and Specialty Conferences and in the technical knowledge and continuing education you receive at these meetings.

[\(More Info\)](#)

◆ Networking Opportunities -

With over 3000 members, AEG provides you with access to a wide network of Environmental and Engineering geology professionals at both our local section meetings and at national conferences. [\(More Info\)](#)

◆ Publications -

AEG News, the Environmental & Engineering Geoscience Journal, and the *AEG Insider* contain relevant geoscientific information, updates on AEG activities, and engaging scientific interest stories. [\(AEG News\)](#) [\(AEG Insider\)](#)

With benefits like these, of course you want to be part of AEG! We encourage you to spread the word – talk to your co-workers, classmates and friends about AEG and all it has to offer.

REMEMBER:

- Student Membership is **FREE!**
- Graduating student receive their first year of full membership for FREE as our Graduation Gift to you (Contact us at aeg@aegweb.org to receive your gift)

If you have – **thank you!** Full members receive discounted registration for Annual Meetings and Specialty Conferences.

If you have any questions regarding your membership status or would like to join, please call one of our officers.

OPPORTUNITY TO VOLUNTEER



California Earthquake Clearinghouse



Would you like to help out in the event of a damaging earthquake? With your expertise emergency responders can effectively manage earthquake response without the risk of butting heads or micromanaging responders. This is one of the goals of The California Earthquake Clearinghouse and they are expanding into our area. The CEC looking for geologists, engineers and other professionals to help coordinate earthquake field investigations as well as share their knowledge with emergency responders and the engineering and scientific communities. Benefit from shared information, situational awareness, FEMA training and limited liability coverage training. You can find a more detailed history of the CEC, events they have responded to and reasoning behind its creation [here](http://www.californiaeqclearinghouse.org):

www.californiaeqclearinghouse.org

Interested? Additional Questions?

Contact

Andrew Robinson

Geochemistry Laboratory Specialist

Vice Chair South AEG-IE

arobi002@ucr.edu

ASBOG EXAM WORKSHOPS



National Association of State Boards of Geology

The National Association of State Boards of Geologists (ASBOG) will be holding the spring Council of Examiners (COE) Workshop in Flagstaff, AZ during **April 2017** and the fall COE in Portland, OR during **November 2017**. The COE consists of two days reviewing the previous and subsequent ASBOG exams used for qualifying geologists for professional registration. The COE is conducted by Subject Matter Experts (SMEs) made up of geologists from the various State Boards. As part of the new procedures implemented by the ASBOG Executive Committee, selected SMEs registered in or adjacent to the State where the COE is being held have been included as part of the COE process.

The requirements for applying to be a SME to the COE are:

- Registered/Professional Geologist in good standing from a State using the ASBOG exams for registration
- Having passed the ASBOG exam(s) previously
- Working as a professional geologist in industry, academia, or government
- Agree to the terms and conditions as set forth by ASBOG for being a SME
- Able to attend the COE knowing that your travel expenses will not be reimbursed

The COE is a key component of expanding and maintaining a relevant and defensible examination for applicants. Due to the strict exam review process performed for each administration and the task analysis performed every 5 years, ASBOG has developed one of the fairest and most applicable exams for licensure of geologists. SMEs play a critical role in ensuring that the COE has sufficient professional experience to perform this process and give fair weight to all aspects of geology.

The COE is structured as a two stage process and have parallel sessions (fundamentals and professional). During the first day, instructions are provided by the psychometrician and then the participants “take” the exam that was given during the past administration. In the afternoon, participants review each of the questions as a group with input from the psychometrician indicating how the questions performed on the exam. Based on this review, questions are accepted or may be double keyed and/or removed. Generally only questions that have not been used, or used infrequently, in the past are identified as being of concern when they are ambiguous to the group and/or they have not performed well within the administration. During the second day the process is repeated, but for the exam that will be given at the next scheduled administration.

If you are interested to be part of this process, please provide your credentials and information to ASBOG for consideration.

This information can be emailed to: Deana Sneyd <dsneyd@asbog.org>.

SCEC SUMMER 2017 INTERNSHIP OPPORTUNITIES

SCEC offers two internship programs for college undergraduate students:

SCEC/SURE (Summer Undergraduate Research Experience)

Interns are primarily juniors or seniors, and most projects are best suited for students majoring in earth science or a related field. SURE interns are paired one-on-one with a SCEC scientist at that researcher's institution or field site, to work within that scientist's field of specialty.

Program Goals

SCEC/SURE was established to provide hands-on research experience for undergraduates and expand student participation in the earth sciences and related disciplines; encourage students to consider careers in research and education; interest, train, and retain talented students, including women, members of underrepresented minorities, persons with disabilities, and students outside the earth sciences.

Student Compensation

Each SCEC/SURE intern is paid a stipend of \$6500 for 8-10 weeks of research. The length of the internship depends on the project and on the internship schedule that each mentor and intern will create in late spring. This stipend must be used to pay for food, housing, and incidental costs.

SCEC/USEIT (Undergraduate Studies in Earthquake Information Technology)

Interns work on collaborative teams at SCEC headquarters at the University of Southern California and conduct computer science research to benefit earthquake science.

Program Goals

SCEC/USEIT was established to allow undergraduates to use, hands-on, the advanced tools of information technology to solve important problems in interdisciplinary earthquake research; close the gap between two fields of undergraduate study – computer science and geoscience – by cross-training students in the modes of understanding distinct to these disciplines; engage non-geoscience majors in the application of earth science to the practical problems of reducing earthquake risk, and thereby inform students with varied backgrounds how their classroom skills can be applied to significant social issues; interest, train, and retain talented students from outside the earth sciences, including women, members of underrepresented minorities, and persons with disabilities; and teach students to succeed in collaborative, multidisciplinary workplace settings in and out of research arenas.

Student Compensation and Housing

Stipend and Meal Allowance

Each SCEC/USEIT intern receives a stipend of \$4000 for 8 weeks of research, plus \$1000 as a meal allowance (\$5000 total).

Housing

Double occupancy housing is available on the USC campus for any USEIT student, and will be paid directly by SCEC. Students can request single occupancy housing, which has a higher cost that will be deducted from the stipend provided. Students living elsewhere will receive a \$1500 housing allowance (for a grand total of \$6500).

Questions? Email internships@scec.org

CAREER OPPORTUNITY

Geology Instructor

State Center Community College District

Closing Date: 3/16/2017 at 11:55 PM

Campus Location: Clovis Community College

Start Date: 08/10/2017

Essential Functions:

Includes teaching physical and historical geology, oceanography, earth science, and environmental science; teaching assignments may include a variety of instructional settings and times, including evenings and weekends; curriculum and program development and/or revision, including program review and the development and assessment of student learning outcomes for courses and programs; communicating effectively with students and staff; developing classroom presentations using appropriate technologies; advising students; participating in college/district committees; participating in appropriate professional meetings and workshops; cooperating with regard to scheduling classes between colleagues in the same disciplines; participating in student recruiting activities; assist in the advancement of the institutional mission and goals; and otherwise fulfilling the duties and responsibilities of instructors as required by Administrative Regulation 7122.

Minimum Qualifications:

Include a masters degree in geology; **OR** a bachelors degree in geology **AND** a masters degree in geography; **OR** a valid California Community College Credential; **OR** the equivalent education and/or experience (**requires an equivalency**); **AND** demonstrated sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds of community college students.

Desirable Qualifications:

Preference shall be given to candidates who have experience in teaching physical and historical geology, earth science, oceanography, environmental science; classroom and laboratory teaching experience encompassing the breadth of courses taught; the use of a variety of pedagogies and integrating educational technologies into classroom and laboratory instruction; related work and professional experience in geology; experience with diagnosing and remediating knowledge and skills deficiencies; that demonstrate an ability to design and implement innovative teaching methodologies; who evidence a commitment to interacting and working successfully as a team with science instructors, laboratory technicians, and other colleagues; that express an enthusiasm for teaching and assisting students to succeed; have an ability to develop curriculum in emerging areas of geology; who demonstrate an ability to adapt instructional techniques to accommodate varied learning styles and a variety of teaching modalities including distance learning; experience with the administration of course budgets including the selection, purchase, installation and maintenance of computer and software as well as other lab equipment and supplies for the geology courses; and exhibit the capacity to contribute to the total operation of the instructional program including Department, Division, and State Center Community College District responsibilities.

Conditions of Employment:

177 duty days

Salary and Benefits:

Starting salary is \$54,029 \$81,342 based on education and experience. A doctoral stipend of \$2,021 is available. In addition, the District offers an attractive fringe benefit package including medical, dental, and vision coverage for the employee and dependents, and life insurance. Employees are also members of the California State Teachers Retirement System (CalSTRS).

CAREER OPPORTUNITY

Selection Procedure:

Applications will be screened to determine which applicants meet the minimum qualifications as stated in the job announcement. From the applicants who meet the minimum qualifications and who have submitted all the required documents, a selection committee will determine the candidates who are best qualified based on the minimum and desirable qualifications. They will be invited to interview. The selection committee will rate responses to the interview questions, teaching demonstration and writing prompt (if applicable). Based on this rating, a small number of applicants will be selected as the recommended candidates. These candidates will be forwarded to the Vice President of Instruction and Student Services and College President for final interviews. A hiring recommendation will be made by the College President and forwarded to the Board of Trustees of State Center Community College District for final approval. State Center Community College District is an equal opportunity employer. It is our pledge to treat all applicants fairly and equitably in the recruitment and selection process. We endeavor to be a service-minded organization and respond to the needs of our applicants. For more information, contact the Academic Human Resources Office, 1525 E. Weldon Avenue, Fresno, California, 93704, (559) 244-5900. For information on Clovis Community College or State Center Community College District, visit our website at www.scccd.edu. Please refer to Position No. 5599. Submission of application and related materials is the applicants responsibility and must be submitted through the districts online applicant portal. The District reserves the right to re-advertise or to delay indefinitely the filling of a position if it is deemed that the applicants for the position do not constitute an adequate applicant pool or if funding is not available. All application materials are subject to verification. False statements may be cause for disqualification or discharge from employment.

Additional Information:

To be considered for this position please visit our web site and apply on line at the following link:

www.scccd.edu

EOE

jeid-3c7606ac49e690438d359999cf648557

Application Information

Contact:

Sandi Edwards

State Center Community College District

Fax:

559-229-7039

Online App. Form:

<http://apptrkr.com/958064>

State Center Community College District is an Equal Opportunity Employer. It is the policy of State Center Community College District to provide all persons with equal employment and educational opportunities without regard to race, ethnicity, national origin, gender, age disability, medical condition, marital status, religion, or other similar factors as defined by law. We are a Title 5 Employer.

CAREER OPPORTUNITY

Geology Instructor Part-time Pool

Institution: [South Orange County Community College District](#)

Location: Mission Viejo, CA

Category: Faculty - Science - Geology, Earth Sciences, and Oceanography

Posted: 02/01/2017

Type: Adjunct/Part-Time

Classification Title: Geology

Position ID: 1915

Job Opening ID: PTF 2013

Department: Geology (Dist-PTF-029)

Pay Basis: Hourly

Pay Rate: Commensurate with education.

Summary Description: Instruct classes in Geology as assigned.

Representative Duties and Responsibilities: Instruct classes as assigned. Participate in general faculty functions related to the educational program and in-service activities. Assignments may include day, evening, and/or weekend courses.

Assignment Type: Part-time Faculty

Minimum Qualifications:

The successful candidate must meet one of the following criteria:

1. Master's degree or higher in geology, geophysics, earth sciences, meteorology, oceanography, or paleontology from an accredited college or university; OR
2. Bachelor's degree in geology AND a Master's degree in geography, physics, or geochemistry from an accredited college or university; OR
3. Valid California Community College instructor credential appropriate to the subject per Education Code 87355 (issued prior to July 1, 1990); OR
4. A combination of education and experience that is at least the equivalent of items 1 or 2 above (Applicants applying on the basis of equivalency must complete all Equivalency questions on their application in addition to all other required materials).

Conditions of Employment:

Part-time, temporary, hourly assignments are on an as needed basis. This is an ONGOING recruitment.

We accept part time faculty applications all year long; when the department or division has a need to fill, they refer to the "pool" of part time faculty applications on file.

APPLICATIONS AND INQUIRIES

All interested applicants must complete an online Part Time Academic Application located on our Employment Web site at <https://jobs.socccd.edu>. All required documents must also be submitted (may be attached online).

CAREER OPPORTUNITY

Any inquiries may be directed to:

Office of Human Resources
South Orange County Community College District
28000 Marguerite Parkway
Mission Viejo, CA 92692
(949) 582-4850

SOCCCD is an Equal Opportunity Employer

Application Information

Contact: South Orange County Community College District

Online App. Form:

<https://jobs.socccd.edu/postings/7636>