

**Postdoctoral Opportunity** at the Center for Education and Equity in Mathematics, Science and Technology (CEEMaST), College of Science, California State Polytechnic University, Pomona.

The Center for Education and Equity in Mathematics, Science and Technology (CEEMaST) is the outreach arm for the College of Science and provides professional development for K-12 teachers in its service area through grants and contracts. We are currently offering an opportunity for a postdoctoral fellow to participate in new and ongoing research and development of K-12 in-service projects in collaboration with science discipline faculty, science education researchers, professional staff, and practicing teachers. Lecture track faculty opportunities in undergraduate courses within your science discipline and secondary teaching methods available. Potential for creative high-quality research/scholarship in science education exists.

Current Grants/Programs:

Three project institutes (the 4-5 Institute, the middle school and the high school efforts) are underway. Each institute focuses on appropriate California Content Standards. Summer institutes range from 40 to 80 contact hours (plus follow-ups hours). All of the institutes have embedded teaching and learning elements that focus on the development of discipline specific academic language development and that enable the learning of English Learners. As the San Gabriel Valley Science Project (SGVSP - one of 19 sites across the state: <http://csmmp.ucop.edu/csp/>) we work with district personnel and teachers from state designated Program Improvement Schools to provide the support and technical assistance needed for both the improvement of programs and student achievement.

**1. The SGVSP/NSF 4/5 Institute**

The first cohort of 50 teachers have participated in a summer intensive institute (80 hours) and will have completed 72 hours of follow-up work in May of 2005. Cohort one teachers will continue their growth through a 40-hour summer institute in 2005 with additional follow-ups during the 2005-06 academic year. A cohort of 75 new 4/5 teachers will begin their work in 2006. This program is a partnership with four local school districts and LessonLab, Inc., with support from a four-year National Science Foundation Research on Learning in Education grant and the SGVSP.

**2. The SGVSP/HHMI High School Institute**

The 40-hour summer Howard Hughes Medical institutes (HHMI) support research laboratory experiences that embrace the nature of science and support urban students to pursue science careers. Each HHMI includes six high school teachers, twelve high school students and three pre-service teachers. The HHMI's include university content faculty and science educators in team teaching situations which model exemplar teaching of critical thinking and research situations both on campus and at research field stations in California. This program is supported by the outreach component of a Howard Hughes Medical Institute grant Cal Poly Pomona received in 2004.

**3. The SGVSP/CaMSP Middle School Institute**

The SGVSP is in partnership with the Hacienda La Puente Unified School District to provide 80-hour summer institutes with 6 follow-ups during the subsequent academic

year. The first cohort of middle school teachers will participate the summer of 2005. This years institute will focus on Earth and Physical science standards.

Desired Qualifications: Candidates should have a broad understanding of science and a commitment to applying their knowledge of science to educational research and development of in-service programs in the urban context. Holding a Masters' in a science field is advantageous. Experience working with school teachers, administrators and university faculty is desirable.

Required Qualifications: Candidates should have completed or be nearing completion of the doctoral degree in science teaching or science education. Prior teaching experience at the secondary science level is required. Candidates should have strong analytical and organizational abilities, strong written and oral communication skills, and the ability to work well in a team environment. The ability to function as an effective member of a diverse team and commitment to collegiality is a must.

Responsibilities include:

- Cooperatively design, implement, teach and evaluate externally funded outreach programs for K-12 teachers.
- Collaborate with science discipline faculty, science education researchers, professional staff, and practicing teachers.
- Lecture track faculty opportunities in undergraduate courses within your science discipline and secondary teaching methods available.

Women and minorities are strongly encouraged to apply. The term for a postdoctoral appointment is three years. Salary range is between \$40,000 and \$45,000.

To Apply, send letter of application addressing required and desired qualifications, a current curriculum vitae, copies of undergraduate and graduate transcripts (where appropriate) highlighting relevant coursework/degrees in science and science education and 3 letters of reference attesting to the candidate's qualifications as well as names, mailing addresses, e-mail addresses, and phone/fax numbers. Send materials to Dr. Nicole I.Z. Wickler, CEEMaST, College of Science, Cal Poly Pomona, Pomona, CA 91768. Review of applications will commence immediately and continue until the position is filled.