

**California State Polytechnic University, Pomona**

**Faculty Positions in STEM Pedagogy**

**California State Polytechnic University, Pomona** (Cal Poly Pomona) invites applications for three tenure-track positions at the rank of Assistant Professor or Associate Professor to begin Fall 2017 – one each in the departments of **Electromechanical Engineering Technology**, **Mathematics & Statistics**, and **Psychology & Sociology** – to create a cluster of faculty with a commitment to working together to implement and disseminate research-based pedagogy in STEM.

**Positions:** Responsibilities include teaching undergraduate courses, advising students, conducting research, and providing service to the department, college and university.  Successful candidates will demonstrate the potential to engage in innovative research-based pedagogy in STEM or to conduct research in STEM education or related areas of Engineering, Science, Mathematics, Psychology or Sociology. Applicants whose work incorporates a global perspective and a commitment to diversity in higher education are particularly encouraged to apply.

**Minimum Qualifications:**

* A doctoral degree (PhD preferred) in an area appropriate to the hiring department (see below) by September 1, 2017.
* Excellent written and oral communication skills.
* Demonstrated commitment to undergraduate teaching.
* Demonstrated commitment to working with diverse student and community populations.
* Demonstrated potential for success in scholarship.

**Additional Discipline Specific minimum qualifications:**

Engineering

* + A PhD in engineering, engineering education or a closely-related field.
  + Candidates must be able to effectively teach theory as well as develop innovative lab projects.
  + Successful candidates will help with the enhancement of research and teaching laboratories, and other curriculum development.

Mathematics & Statistics

* A PhD in mathematics, statistics, mathematics education, statistics education, or related area.
* Experience teaching at the undergraduate level.
* Candidates must be able to teach a broad range of undergraduate and graduate level classes in mathematics or statistics, and show potential for supervising master’s thesis students.

Psychology & Sociology

* PhD or other appropriate terminal degree in psychology (educational, social, cognitive or I/O psychology) or sociology (education, social justice, race/gender, quantitative/mixed methods, science, technology, social work), or related social science discipline.
* Demonstrated ability to be responsive to the educational equity goals of the university and its increasing ethnic and international character.

**Preferred/Desired Qualifications:**

Candidates with specialization relevant to understanding barriers and facilitators of success and learning in STEM and other courses are encouraged to apply.

Any additional professional experience and/or teaching experience, along with these discipline specific preferred/desired qualifications:

Engineering:

* Expertise in one or more of the following: Engineering Education, First Year Experience, Program Assessment, Program/Curriculum Development.
* Demonstrated ability in applied research in engineering education or a related field.

Mathematics & Statistics:

* Ability and interest in pedagogy in lower division mathematics courses like calculus, trigonometry, college algebra, and intro statistics.
* Demonstrated experience in curriculum development and research at the tertiary level.

Psychology & Sociology:

* Quantitative or mixed methods experience
* The successful candidate will have demonstrated expertise and/or interest in applied research methods. Demonstrated expertise and/or interest in STEM pedagogy, and/or access and equity in STEM education is preferred.

**Cluster Participation**

Successful candidates in the cross-disciplinary cluster in STEM pedagogy are:

* Expected to work with other members of the cluster and the campus community to implement and promote proven pedagogy in STEM.
* Expected to mentor and ensure student success across disciplines.
* Strongly encouraged to pursue grants in collaboration with other faculty to promote student success in STEM.

**Application Procedure:** A completed application will consist of:

* A cover letter that describes the candidate’s teaching and research experience and interests, and that addresses the duties and qualifications articulated in the position description, particularly the ability or desire to work as part of a cluster across disciplines to promote high impact pedagogical practices. The cover letter must clearly indicate which department is being applied to: Electromechanical Engineering Technology (EMET), Mathematics & Statistics (MAST), or Psychology & Sociology (PSY/SOC).
* A curriculum vitae including the names, titles, addresses, and telephone numbers of at least five individuals who can speak to the candidate’s potential for success in this position;
* A Student Success Statement about the candidate’s teaching or other experiences, successes, and challenges in working with a diverse student population (approximately one page, single-spaced);
* A teaching statement, which may include evidence of teaching effectiveness and a discussion of teaching philosophy;
* A research statement or scholarship plan;
* All applicants are encouraged to send a minimum of three recent letters of recommendation; these letters are required for finalists.
* For applicants to the EMET position, a list of courses the candidate is prepared to teach, courses they can teach with some additional preparation, and courses they would like to develop;
* Finalists will be asked to provide transcripts showing highest degree earned (official transcripts will be required before hiring);
* Finalists will also be required to submit a completed application form (Available from <http://www.cpp.edu/~faculty-affairs/open-positions/index.shtml>).

All of the above may be sent electronically in a single packet by e-mail to: [steampedagogy@cpp.edu](mailto:steampedagogy@cpp.edu)

The position is open until filled. First consideration will be given to completed applications received no later than February 28, 2017. Early response is encouraged.

**The University:** As one of only eight polytechnic universities in the US, Cal Poly Pomona, one of two polytechnic universities in California, is a member of the 23-campus California State University system. Our student population of approximately 24,000 enrolls in 51 baccalaureates, 30 master’s degree programs, 11 credential and certificate programs, and a doctorate in Educational Leadership, presented by 1,200 faculty. We recruit successful and career-focused students from throughout California and beyond. We are proud of our status as a Hispanic Serving Institution. We have a strong commitment to supporting scholarship, research, and student achievement. Our scenic and historic 1,400-acre campus, once the winter ranch of cereal magnate W.K. Kellogg, is located about 30 miles east of downtown Los Angeles. Southern California is one of the most dynamic economic and cultural environments in the country, and the campus is within an hour’s drive of beaches, mountains, and desert. The university is committed to diversifying its faculty and staff and has made educational equity one of its highest priorities. The mission of the university is to advance learning and knowledge by linking theory and practice in all disciplines, and to prepare students for lifelong learning, leadership, and careers in a changing, multicultural world.

**The Colleges:** *The College of Engineering* is the 17th largest engineering school in the nation, and is ranked as one of the best public undergraduate engineering colleges in the nation.  The College has over fifty-five years of success in producing over 25,000 workforce ready engineers and engineering technologists.  Our graduates are working throughout California and the nation to meet increasingly complex technical and socio-economic challenges posed by the ever-growing global economy. Additional information is available at the college’s Web site: [www.cpp.edu/engineering](http://www.cpp.edu/engineering)

*The College of Science* is committed to a top-notch science education through discovery and innovation. It offers fifteen undergraduate and graduate degree programs in a wide range of disciplines and departments, including biological sciences, chemistry and biochemistry, computer science, geological sciences, kinesiology and health promotion, mathematics and statistics, and physics and astronomy. Faculty apply theory to practice, creating opportunities for students to use their knowledge in hands-on projects, collaboration in research, and participation in internships and service learning programs.

The faculty and staff of the *College of Letters, Arts, and Social Sciences* provide an excellent education for students desiring intellectual enrichment and career enhancement in the humanities, social sciences, and performing arts. The College offers introductory and advanced course work in 20 degree and certificate programs.

**The Departments:** The Department of Electromechanical Engineering Technology strives to be a leader in polytechnic education, where hands-on learning is the foundation of a broad-based educational experience. The success of our undergraduate programs results from the solid curriculum that incorporates theory and practice in a learning-centered environment. Students are provided with opportunities to apply their knowledge in hands-on projects, collaborate with faculty members on projects, and participate in valuable internships and service-learning programs. Further information may be obtained from the department web site: <http://www.cpp.edu/~engineering/ET/index.shtml>

The Department of Mathematics & Statistics consists of 26 tenured/tenure track faculty, with specialists in pure math, applied math, statistics, and mathematics education. It offers undergraduate programs in pure math/secondary teaching and applied math/statistics; and graduate emphases in pure mathematics, applied math, statistics and mathematics education.  The Department has more than 500 undergraduate majors and 40 graduate students, and serves over 5,000 students each term.

The Department of Psychology and Sociology consists of 26 tenured/tenure track faculty covering two majors, and houses a graduate program in Marriage and Family Therapy Preparation.  The Department offers general undergraduate degrees in Psychology and Sociology, a Sociology degree with a specialty in Criminology, and a Sociology degree with a specialty in Social Work.

*California State Polytechnic University, Pomona is an Equal Opportunity, Affirmative Action Employer.* The University seeks to recruit and retain a diverse workforce as a reflection of our commitment to serve the people of California, to maintain the excellence of the University, and to offer our students richly varied disciplines, perspectives and ways of knowing and learning.Cal Poly Pomona subscribesto all state and federal regulations and prohibits discrimination based on race, color, religion, national origin, sex, gender identity/gender expression, sexual orientation, marital status, pregnancy, age, disability, genetic information, medical condition, and covered veteran status.*The University hires only individuals lawfully authorized to work in the United States.  As required by the Clery Disclosure Act, the university’s annual security report is available at* [*http://www.cpp.edu/~police/annual-security-report.shtml*](http://www.cpp.edu/~police/annual-security-report.shtml)*. The person holding this position is considered a ‘mandated reporter’ under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment. A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the CSU. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.*