



# California State University, Fresno

Lyles College of Engineering

Electrical & Comp. Engr.

Vacancy # 13317

<http://www.fresnostate.edu/engineering/>

## Electrical and Computer Engineering Assistant Professor

California State University, Fresno is an engaged University. We focus on broadening students' intellectual horizons, fostering lifelong learning skills, developing the leaders of tomorrow, promoting community involvement, and instilling an appreciation of world cultures. We nurture cultural competence by celebrating the rich diversity of the campus community and welcoming the participation of all. Members of the University community are expected to work effectively with faculty, staff and students from diverse ethnic, cultural and socioeconomic backgrounds. For information on the University's commitment and dedication to creating a university known for its integrity, civility, equity, respect and ethical behavior, please visit: <http://www.fresnostate.edu/academics/diversity>

- Available for Academic Year: 2018/2019.
- Fresno State has been recognized as a Hispanic-Serving Institution (HSI); an Asian American/Native American/Pacific Islander-Serving Institution (AANAPISI); and has been designated to the Community Engagement Classification by the Carnegie Foundation for the Advancement of Teaching.
- Faculty members gain a clear path to tenure through the University's Probationary Plan Process.
- Salary placement depends upon academic preparation and professional experience.
- California State University, Fresno is a vibrant and growing campus. When necessary, the University may decide to make more than one faculty appointment from a single search.

### Position Summary:

The Electrical and Computer Engineering Department in the Lyles College of Engineering at California State University, Fresno is accepting applications for two tenure-track positions at the rank of Assistant Professor with August 18, 2018 start date. The successful candidates will be expected to teach a spectrum of courses in core areas of the Electrical and Computer Engineering curricula. Candidates who demonstrate a broad background in Electrical and Computer Engineering, and who have teaching and/or research/industrial experience in the field are sought.

For the first position, the successful candidates will have technical expertise in at least one of the following areas: Area (A): Monolithic Microwave Integrated Circuit (MMIC) Design, Microwave and Millimeter Wave Circuit Design, Machine Learning, Bioelectronics, and Biosensors.

For the second position, the successful candidates will have technical expertise in at least one of the following areas: Area (B): Embedded System, Internet of Things (IoT), Advanced Digital Logic Design, and FPGA/ASIC Design.

Responsibilities of the position include: 1) Teaching undergraduate and/or graduate courses and laboratories in Electrical and Computer Engineering (up to 12 weighted teaching units per semester); 2) Development and teaching of web-enhanced and/or web-based instruction, lecture courses, laboratories, as well as freshman design, senior capstone design, system design, etc.; 3) Active at all levels of the university; 4) Initiating a viable research program and publishing scholarship in peer-reviewed publications; 5) Applying for internal/external funding in support of teaching, research, and professional service; 6) Supervision student research including graduate projects and theses; 7) Advising senior project teams in related fields; 8) Participating in professional activities, including meetings, workshops and/or other relevant activities (e.g., appropriated relationships with industry); 9) Participation in departmental assessment and EAC/ABET accreditation processes; and 10) Effective communication and willingness to work cooperatively with faculty and staff in the department, college, and university. Professionalism and collegiality are essential traits for success in the position, as specific assignments will depend on department needs.

### Overview:

The Electrical and Computer Engineering Department is housed in the Lyles College of Engineering at the California State University, Fresno. The mission of the department is to fulfill the needs of the region and state by providing undergraduate and graduate education in Electrical and Computer Engineering to a diverse group of students. The department enrolls over 500 undergraduate and 30-50 graduate students. It offers two accredited BS degree programs with options in Electrical Engineering or Computer Engineering. The BS degree programs are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). In addition to providing a strong theoretical foundation in the subject matter, all programs provide

curriculum-based intensive hands-on labs to enhance applied skills and prepare students for applied research and the engineering practice.

**Required Education:**

An earned Doctorate (Ph.D. or equivalent) and Bachelor of Science (B.S.) in Electrical and Computer Engineering, or a closely-related field from an accredited institution is required for appointment to a tenure-track position; however, applicants nearing completion of the doctorate (ABD) may be considered. For continued employment in the tenure-track position, the doctorate must be completed by 12/31/2018.

**Required Experience:**

1) Expertise in core areas of Electrical and Computer Engineering, including at least one technical area related to:

Area (A): MMIC Design, Microwave and Millimeter Wave Circuit Design, Machine Learning, Bioelectronics, and Biosensors.

Area (B): Embedded System, Internet of Things (IoT), Advanced Digital Logic Design, and FPGA/ASIC Design.

2) Experience in experimental development and engineering design specific to the stated field(s) of expertise; 3) Record of university-level teaching, and research or scholarly activities, including successful grants and/or research publications; and 4) An ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds.

**Preferred Qualifications:**

1) Proficient communication skills; 2) Demonstrated teaching excellence and scholarly productivity at the collegiate level; 3) Publications in high-quality journals whose publication record is commensurate with the candidate's level of experience; 4) Proficiency in professional practice in Electrical/Computer Engineering (or a related field) via industry experience; 5) Undergraduate education from an ABET accredited program.

**Application Procedures:**

Review of applications will begin November 1, 2017, and will continue until the position is filled. To ensure full consideration, candidates should submit all application materials before the stated review date. To apply, applicants must complete an on-line application at <http://jobs.csufresno.edu/> and attach the following; 1) Cover letter specifically addressing required experience and preferred qualifications, clearly identifying the candidate's areas of main technical expertise, and details how such expertise was achieved through a combination of graduate coursework, doctoral research, funded research/publications, project work and/or industrial experience; 2) Curriculum vitae that includes educational background, main teaching and/or professional experience, and a complete list of publications; 3) List of three professional reference with names, addresses, and telephone numbers. Finalists will be required to submit: 1) Three letters of recommendation; 2) Official transcripts; 3) Statement of Teaching Philosophy; 4) Research Plan. For inquiries, contact: Dr. Youngwook Kim, Search Committee Chair, California State University, Fresno; Electrical and Computer Engineering Department; 2320 E. San Ramon Ave., M/S EE94; Fresno, CA 93740-8030; Phone: 559.278.4629, Email: [youngkim@csufresno.edu](mailto:youngkim@csufresno.edu)

**Other Requirements:**

In compliance with the Annual Security Report & Fire Safety Report of Campus Security Policy and Campus Crime Statistics Act, California State University, Fresno has made crime-reporting statistics available to applicants, students, and employees on-line at <http://www.fresnostate.edu/police/clery/index.shtml>. Print copies are available by request from the Campus Police Department.

A background check (including criminal records check) must be completed satisfactorily for this position. An offer of employment may be withdrawn or employment may be terminated based upon the results of the background investigation.

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 Revised July 21, 2017 as a condition of employment. You can obtain a copy of this Executive order by accessing the following web site: <http://www.calstate.edu/eo/EO-1083.html>.

**Equal Employment Opportunity:**

California State University, Fresno is an Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, religion, color, national origin, ancestry, age, sex, gender, gender identity, gender expression, sexual orientation, genetic information, medical condition, disability, marital status, or protected veteran status.