

# Assistant Professor in Communications and Signals

Job #JPF01197

- Electrical and Computer Engineering / Engineering School / UC Santa Cruz

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## POSITION OVERVIEW

**Position title:** Assistant Professor in Communications and Signals

**Salary range:** Commensurate with qualifications and experience; academic year (nine-month basis).

**Anticipated start:** July 1, 2022, with the academic year beginning in September 2022. Degree requirements must be met by June 30, 2023 for employment beyond that date.

## APPLICATION WINDOW

**Open date:** January 12th, 2022

**Next review date:** Monday, Mar 14, 2022 at 11:59pm (Pacific Time)

Apply by this date to ensure full consideration by the committee.

**Final date:** Thursday, Jun 30, 2022 at 11:59pm (Pacific Time)

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

## POSITION DESCRIPTION

The Department of Electrical and Computer Engineering at the University of California, Santa Cruz (UCSC) invites applications for the position *Assistant Professor in Communications and Signals*. The Electrical and Computer Engineering Department at UC Santa Cruz aims to achieve engineering discoveries that benefit humankind through a combination of curiosity, open-mindedness, and inclusiveness. We aim to provide undergraduate and graduate students with inspiration and quality education, believing that rigor, creativity, and excitement should be part of the Electrical and Computer Engineering curriculum. Our Electrical Engineering undergraduate program is accredited by the [Engineering Accreditation Commission of ABET](#).

The appointed faculty member is expected to excel in research in the general area of communications and signal processing. We seek outstanding applicants who have potential for developing demonstrated research and teaching expertise in the general areas of signal processing and communications, including but not limited to wireless communications; communications for IoT; vehicle-to-vehicle communications; and machine learning applications in communication systems, physical-layer security, and signal processing for biology and bioinformatics related applications including bio instrument data readout signal processing.

The Department of Electrical and Computer Engineering is part of the Baskin School of Engineering at UC Santa Cruz. Our school has nationally and internationally known researchers in many areas. UC Santa Cruz is a member of the Association of American Universities (AAU), an association of the top research universities in the U.S. and is home to many centers and research institutes including the [UCSC Genomics Institute](#), the [W.M. Keck Center for Nanoscale Optofluidics](#), the [Center for Molecular Biology of RNA](#), and the [Cyber-Physical Systems Research Center](#). Our campus is the nearest University of California campus to Silicon Valley and has close research ties with the local computer industry. Nested in a redwood forest above the city of Santa Cruz, our beautiful campus has a long history of embracing groundbreaking interdisciplinary work. Our proximity to Silicon Valley, and our satellite campus there, afford opportunities and avenues for collaboration with researchers working in the many research and development labs in Silicon Valley, as well as with the other San Francisco Bay Area universities.

The Electrical and Computer Engineering department strives to support a creative and forward-looking research program with faculty members collaborating in many areas of electrical and computer engineering and beyond. The department houses Bachelor's (ABET accredited), Master's, and Ph.D. degree programs in Electrical and Computer Engineering, as well as a Bachelor's degree program in Robotics Engineering. Our faculty includes numerous fellows of professional societies, including the Institute of Electrical and Electronics Engineers (IEEE), American Association for the Advancement of Science (AAAS), Optica Society (OSA), Association for Computing Machinery (ACM) and the National Academy of Inventors (NAI). The successful candidate is expected to develop a research program, advise graduate students in their research area, obtain external funding, develop and teach courses within the undergraduate and graduate curriculum, perform university, public and professional service, and interact broadly with the large number of researchers in Silicon Valley's industrial research and advanced development labs. The successful candidate will work successfully with students, faculty, and staff from a wide range of social, ethnic and cultural backgrounds, genders, and sexual orientations.

We are especially interested in candidates who can contribute to the diversity and excellence of our academic community through their research, teaching, and service. We welcome candidates who understand the barriers facing women and minorities who are underrepresented in higher education careers, and who have experience in equity, inclusion and diversity with respect to teaching, mentoring, research, life experiences, or service towards building an equitable, inclusive and diverse scholarly environment.

The chosen candidate will be expected to sign a statement representing that they are not the subject of any ongoing investigation or disciplinary proceeding at their current academic institution or place of employment, nor have they in the past ten years been formally disciplined at any academic institution/place of employment. In the event the candidate cannot make this representation, they will be expected to disclose in writing to the hiring Dean the circumstances surrounding any formal discipline that they have received, as well as any current or ongoing investigation or disciplinary process of which they are the subject. (Note that discipline includes a negotiated settlement agreement to resolve a matter related to substantiated misconduct.)

**Electrical and Computer Engineering Department:** <https://www.soe.ucsc.edu/departments/electrical-computer-engineering>

## QUALIFICATIONS

**Basic qualifications** (required at time of application)

Ph.D. (or equivalent foreign degree) in electrical and computer engineering, electrical engineering, or other fields relevant to the advertised position. It is expected that the degree requirement will be completed by June 30, 2023.

## APPLICATION REQUIREMENTS

### Document requirements

- Statement of Contributions to Diversity, Equity, and Inclusion\* - Statement addressing your understanding of the barriers facing traditionally underrepresented groups and your past and/or future contributions to diversity, equity, and inclusion through teaching and professional or public service. Candidates are urged to review guidelines on statements (see <https://apo.ucsc.edu/diversity.html>) before preparing their application.

\*Initial screening of applicants will be based exclusively on the Statement on Contributions to Diversity, Equity, and Inclusion.

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter - Letter of application that briefly summarizes your qualifications and interest in the position.
- Statement of Research
- Statement of Teaching

### Reference requirements

- 3 letters of reference required

Applications must include confidential letters of recommendation\*\*. Note that your references, or dossier service, will submit their confidential letters directly to the UC Recruit System.

\*\*All letters will be treated as confidential per University of California policy and California state law. For any reference letter provided via a third party (i.e., dossier service, career center), direct the author to UCSC's confidentiality statement at <http://apo.ucsc.edu/confstm.htm>.

**Apply link:** <https://recruit.ucsc.edu/JPF01197>

**Help contact:** [aburke1@ucsc.edu](mailto:aburke1@ucsc.edu)

## CAMPUS INFORMATION

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. UC Santa Cruz is committed to excellence through diversity and strives to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees. Inquiries regarding the University's equal employment opportunity policies may be directed to the Office for Diversity, Equity, and Inclusion at the University of California, Santa Cruz, CA 95064 or by phone at (831) 459-2686.

Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UCSC positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check (see <https://www.uscis.gov/e-verify>). The university sponsors employment-based visas for nonresidents who are offered academic appointments at UC Santa Cruz (see <https://apo.ucsc.edu/policy/capm/102.530.html>).

UCSC is a smoke & tobacco-free campus.

If you need accommodation due to a disability, please contact Disability Management Services at [roberts@ucsc.edu](mailto:roberts@ucsc.edu) (831) 459-4602.

UCSC is committed to addressing the spousal and partner employment needs of our candidates and employees. As part of this commitment, our institution is a member of the Northern California Higher Education Recruitment Consortium (NorCal HERC). Visit the NorCal HERC website at <https://www.hercjobs.org/regions/higher-ed-careers-northern-california/> to search for open positions within a commutable distance of our institution.

The University of California offers a competitive benefits package and a number of programs to support employee work/life balance. For information about employee benefits please visit <https://ucnet.universityofcalifornia.edu/compensation-and-benefits/index.html>

As a condition of employment, you will be required to comply with the [University of California SARS-CoV-2 \(COVID-19\) Vaccination Program Policy](#). All

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Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. For new University of California employees, the applicable deadline is eight weeks after their first date of employment. (Capitalized terms in this paragraph are defined in the policy.)

VISIT THE UCSC WEB SITE AT <https://www.ucsc.edu>

### JOB LOCATION

Santa Cruz, California