

# SAN JOSÉ STATE UNIVERSITY

## Department Summary

The Biomedical Engineering (BME) Department at San Jose State University (SJSU) invites applications for one tenure-track faculty position at the rank of Assistant Professor. The Department is home to dynamic programs for BS and MS degrees in Biomedical Engineering. Located in the heart of Silicon Valley, we have developed strong ties and long-standing collaborations with the diverse array of biomedical engineering industries that surround us. While most of our students stay in Silicon Valley upon graduation, and contribute actively to the dynamic growth in the Bay Area, a significant portion of our students have enjoyed successful careers around the country and abroad. Our rigorous BS and MS curricula were developed in close consultation with our Industry Advisory Council to ensure that our graduates are “industry-ready” with the skills and knowledge to begin successful careers in biomedical engineering. Many of our classes also benefit from the contributions of these industry experts who engage our students, share their practical experiences and, not infrequently, teach some of our classes.

The reputation of our educational programs for providing a unique practical approach is built on a strong academic foundation that continues to attract students. Student enrollment in our BS and MS programs has increased steadily since the department’s inception, with a current total student population of approximately 450. Many of our students are engaged in academic research with faculty in their research labs, or work on projects with industries in various capacities.

Our full-time faculty are all active researchers and continue to successfully attract major funding from industry, local and state-wide funding programs, and federal institutions such as the National Science Foundation, and the National Institutes of Health. The range of their research interests spans advanced biomaterials, prosthetics and orthotics, 3D printing, microfluidic devices for diagnostics, nanotechnology for drug delivery, and cardiovascular devices, among others.

More information about the SJSU Biomedical Engineering Department can be found at:

<https://www.sjsu.edu/bme/>

## Required Qualifications

- A Ph.D. earned in Biomedical Engineering, or a closely related engineering discipline; the Ph.D. degree conferral date should be no later than April 15, 2021.
- Commitment to teaching and research activities of the highest academic and professional caliber, while maintaining a student-centric approach at all times, thereby contributing to the development of students as productive, responsible, and caring citizens of the world. In particular, applicants must demonstrate a strong commitment to: (a) teaching and working with a diverse population of students at the undergraduate and graduate (MS) levels, (b) curricular innovation to complement and further advance the program, (c) laboratory development that will enhance the quality of education and research, and (d) development of externally funded research programs and laboratory capabilities.

- Applicants should demonstrate an awareness of and sensitivity to the educational goals of a multicultural population as might have been gained in cross-cultural study, training, teaching and other comparable experience.

### **Preferred Qualifications**

- Research expertise in biomedical electronics, bioinstrumentation, bio imaging, biomechanics, biomaterials, biomedical device design and/or manufacturing, or other closely related areas.
- Interest in addressing the health outcomes gaps through strategies to enhance public health and social welfare systems, as well as developing alternative and less invasive therapies for those who live with a wide range of chronic diseases and/or disabilities, among other issues.
- Extensive industry and/or academic research experience in a field relevant to biomedical engineering.

### **Responsibilities**

- Faculty in the Biomedical Engineering Department are expected to have expertise in the subject matter of the class or lab they teach. The regular duties of the faculty include:
  - Developing all necessary course materials,
  - Delivering synchronous and/or asynchronous lectures for the assigned class, in accordance with standard SJSU practices,
  - Grading course assignments, examinations and project reports,
  - Enforcing academic policies in the assigned course, such as academic integrity violations and reporting violations to the appropriate authorities,
  - Coordinating the activities of teaching assistants and graders who may have been hired for the assigned course,
  - Posting the final grades in a timely manner at the end of the semester,
  - Contributing to the regular assessment and continuous improvement of teaching effectiveness at both course and program levels.
- Participation in shared governance, usually in department, college, and university committees, academic advising of undergraduate and graduate students, and other service assignments.
- The candidate must demonstrate awareness and experience understanding the needs of a student population of great diversity – in age, cultural background, ethnicity, primary language and academic preparation – through inclusive course materials, teaching strategies and advisement.

**Compensation** - Commensurate with qualifications and experience. See [Benefits Summary](#) for details.

**Starting Date – August 2021**

**Eligibility** - Employment is contingent upon proof of eligibility to work in the United States.

### **Application Procedure**

Click [Apply Now](#) to complete the SJSU Online Employment Application and attach the following documents:

- Letter of interest
- Curriculum vitae
- Statement of teaching interests/philosophy (2 pages maximum, 12 pt Times New Roman)
- Research plans (2 pages maximum, 12 pt Times New Roman)
- Diversity statement (1 page maximum, 12 pt Times New Roman) discussing specific initiatives, strategies, activities that you have accomplished and/or that you plan to accomplish to advance diversity, equity, and/or inclusion
- Three references with name, position, affiliation, and contact information
- For full consideration please upload your application by 5:00 p.m. December, 14, 2020 Pacific Standard Time.

Inquires may be directed to the Department Chair; Guna Selvaduray [guna.selvaduray@sjsu.edu](mailto:guna.selvaduray@sjsu.edu)

## **The University**

[San José State University](#) enrolls over 35,700 students, a significant percentage of who are members of minority groups. As such, this position is for scholars interested in a career at a national leader in graduating URM students. SJSU is a Hispanic Serving Institution (HSI) and Asian American and Native American Pacific Islander (AANAPISI) Serving Institution; 40% of our students are first-generation, and 38% are Pell-qualified. The university is currently ranked first nationally in increasing student upward mobility. The University is committed to increasing the diversity of its faculty so our disciplines, students, and the community can benefit from multiple ethnic and gender perspectives.

San José State University is California's oldest institution of public higher learning. Located in downtown San José (Pop. 1,000,000) in the heart of Silicon Valley. SJSU is part of one of the most innovative regions in the world. As Silicon Valley's public university, SJSU combines dynamic teaching, research, and university-industry experiences to prepare students to address the biggest problems facing society. SJSU is a member of the 23-campus California State University (CSU) system.

## **Equal Employment Statement**

San José State University is an Affirmative Action/Equal Opportunity Employer. We consider qualified applicants for employment without regard to race, color, religion, national origin, age, gender, gender identity/expression, sexual orientation, genetic information, medical condition, marital status, veteran status, or disability. This policy applies to all San José State University students, faculty, and staff as well as University programs and activities. Reasonable accommodations are made for applicants with disabilities who self-disclose. Note that all San José State University employees are considered mandated reporters under the California Child Abuse and Neglect Reporting Act and are required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

## **Additional Information**

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.