



College of Engineering

Mechanical Engineering

## FACULTY POSITION IN CARDIOVASCULAR MECHANOBIOLOGY

The Department of Mechanical Engineering at San Diego State University (SDSU) seeks to fill a tenure-track position at the Assistant Professor level in the general area of cardiovascular mechanobiology starting in Fall 2025. Candidates with expertise in experimental, analytical, and/or computational research in blood flow, thrombus simulation, heart valve engineering, tissue mechanics, and medical device design are encouraged to apply. The successful candidate is expected to join the current research effort in the Cardiovascular Biomechanics Laboratory (<http://www.maynewman.us>) and expand the program by developing a vigorous externally funded research program in the general area of cardiovascular mechanobiology. Candidates with a vision to expand their research into areas beyond the current focus of the Cardiovascular Biomechanics Laboratory, e.g. into tissue engineering, machine learning, should describe that in their application materials. Mechanical Engineering (<https://mechanical.sdsu.edu>) is one of four departments in the College of Engineering (<https://engineering.sdsu.edu>) at SDSU offering an EAC/ABET-accredited B.S. degree program, as well as M.S. and joint Ph.D. programs. The Department shares with the College of Engineering and the University a strong commitment to excellence in undergraduate and graduate education. The successful candidate is expected to supervise teams of undergraduate as well as graduate students. Applicants will be expected to teach undergraduate and graduate level courses in the general area of bioengineering. Applicants must have an earned Ph.D. degree in mechanical engineering or a closely related discipline. Additional required criteria are listed in the paragraph below.

We are seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups. Candidates must satisfy two or more of the eight Building on Inclusive Excellence (BIE) criteria. Candidates that meet BIE criteria: (a) are committed to engaging in service with underrepresented populations within the discipline, (b) have demonstrated knowledge of barriers for underrepresented students and faculty within the discipline, (c) have experience or have demonstrated commitment to teaching and mentoring underrepresented students, (d) have experience or have demonstrated commitment to integrating understanding of underrepresented populations and communities into research, (e) have experience in or have demonstrated commitment to extending knowledge of opportunities and challenges in achieving artistic/scholarly success to members of an underrepresented group, (f) have experience in or have demonstrated commitment to research that engages underrepresented communities, (g) have expertise or demonstrated commitment to developing expertise in cross-cultural communication and collaboration, and/or (h) have research interests that contribute to diversity and equal opportunity in higher education. Please indicate in a separate diversity statement how you meet at least two (2) of these criteria. Additional guidance on our BIE program for applicants is [here](#).

SDSU is the oldest institution of higher education in the San Diego region, with a campus in San Diego serving 36,000 undergraduate and graduate students and additional locations in Southern California's Imperial Valley and Tbilisi in the Republic of Georgia. SDSU is included in the Carnegie Foundation's Doctoral Universities: High Research Activity category. Established in 1897, SDSU offers bachelor degrees in 97 areas, masters in 84 and doctorates in 23. See <http://www.sdsu.edu> for more information. SDSU is a large, diverse, urban university, an Asian-Native American-Pacific Islander -Serving Institution and a Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status,

sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all.

The minimum salary for this position is based on the current CSU salary schedule for Assistant Professors and may be revised based on contract collective bargaining. The anticipated salary range is from \$105,000 - \$108,000. Salary placement will be based on the selected candidate's qualifications and experience, and salaries higher than the published maximums may be offered in limited circumstances. San Diego State University offers a rich benefits package that constitutes a major portion of total compensation. For benefits information, click [here](#).

Application materials to be uploaded to Interfolio at <https://apply.interfolio.com/158255> are:

- 1.) Cover letter
- 2.) Curriculum Vitae
- 3.) Research Statement (max. 5 pages)
- 4.) Teaching Statement (max. 2 pages)
- 5.) Diversity Statement - Indicate how at least two of eight criteria in position ad are met. (max. 2 pages)
- 6.) List of 3 References with full contact information
- 7.) Three relevant publications.

Applications received by December 31, 2024 will receive full consideration; the position will remain open until filled. Questions related to this search may be addressed to [mech.engineering@sdsu.edu](mailto:mech.engineering@sdsu.edu).

*As part of its commitment to a safe and equitable "OneSDSU" community, SDSU requires that individuals seeking faculty employment provide at the time of application authorization to conduct background checks if they become a finalist for the position; applications without this authorization will be considered incomplete and not considered.*

*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.*

*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.*

*SDSU is a Title IX, equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status.*