

Department: Mechanical Engineering

Faculty Hire Number: #23-18

Rank: Assistant Professor

Effective Date of Appointment: August 23, 2023 (Subject to Budgetary Approval)

Salary: Dependent upon qualifications

CSUN's Commitment to You:

CSUN is committed to achieving excellence through teaching, scholarship, learning and inclusion. Our values include a respect for all people, building partnerships with the community and the encouragement of innovation, experimentation and creativity. CSUN strives to cultivate a community in which a diverse population can learn and work in an atmosphere of civility and respect. CSUN is especially interested in candidates who make contributions to equity and inclusion in the pursuit of excellence for all members of the university community.

For more information about the University, visit: <http://www.csun.edu>

About the College:

The College of Engineering and Computer Science seeks to be a recognized center for excellence for baccalaureate and master's education in computer science and in engineering and provides quality education for its diverse student population. The College is also a partner in the professional communities of computer science and engineering and provides an essential link between students' education and professional practice.

For more information about the College, see: <https://www.csun.edu/engineering-computer-science>

About the Department:

The mission of the Mechanical Engineering department is to provide a broad, rigorous, application-oriented, and contemporary understanding of mechanical engineering that prepares graduates for successful careers and lifelong learning. The Mechanical Engineering faculty is committed to providing a supportive student-centered environment for their students. The emphasis areas within the department include controls and robotics, energy and thermal-fluid systems, and mechanical design. Master of Science (MS) programs in each of the areas include the option for a unique thesis experience.

For more information about the Department of Mechanical Engineering, see:

<https://www.csun.edu/engineering-computer-science/mechanical-engineering>

Position:

The department of Mechanical Engineering at California State University, Northridge (CSUN) is seeking a tenure-track faculty member in Fluid Mechanics at the rank of Assistant Professor.

The successful candidate will be responsible for teaching both undergraduate and graduate courses in mechanical engineering, especially in the area of Fluid Mechanics. Candidates must demonstrate a

specialization in either experimental methodologies or computational analysis/simulation of complex models involving fluids. They are expected to develop and conduct an effective research program in areas of fluid-structure-interactions, turbulent flows, flow of complex fluids, or bio-inspired fluid mechanics.

Teaching responsibilities include instruction at undergraduate and graduate levels, and participation in and supervision of capstone student design projects. Candidates are expected to supervise MS theses and provide academic and professional advisement to undergraduate and graduate students. Initiation and maintenance of creative scholarly activities, as well as an externally funded research program, are expected. Active and effective participation in curriculum development, assessment and accreditation, and other departmental activities as well as participation in professional and student organizations (e.g., ASME, ASEE) are normative expectations. Additionally, candidates should demonstrate experience or a willingness to pursue evidence-based approaches that promote retention of students from culturally diverse backgrounds.

In addition to teaching, the position requires weekly office hours, attending faculty meetings, and service to the department, college, and university. The successful candidate will be held to the standards and requirements of the college and department in which he/she is housed for recommending tenure and promotion. Proficiency in both written and oral communication in English is required.

Required Qualifications:

As a Hispanic-serving Institution (HSI), inclusiveness and diversity are integral to CSUN's commitment to excellence in teaching, research, and engagement. As of Fall 2020, CSUN enrolls ~40,000 students, where 56% are Latinx, 20.8% are White, 9.3% are Asian American, 4.8% are Black/African American, 0.1% are Native American, and 0.1% are Native Hawaiian or Pacific Islander. The successful candidate will help the Department achieve equitable outcomes for all students through teaching, student mentorship, scholarship, and service.

- Ph.D. in Mechanical Engineering, Fluid Mechanics, or a closely related field from an accredited institution (Doctorate must be completed by the date of appointment)
- An undergraduate degree in Mechanical Engineering or a closely related field from an accredited institution
- College or University-level teaching experience in-person and/or online
- Demonstration of teaching at undergraduate and/or graduate levels in the area of Fluid Mechanics
- Demonstration of research in the areas mentioned in the position description
- Evidence of research publications in the areas mentioned in the position description in peer-reviewed journals and/or conference proceedings within the past 3 years

Preferred Qualifications:

- Evidence of effective engagement or potential to engage with a diverse student body
- Evidence of using culturally responsive pedagogy that leads to equitable outcomes for all students
- Evidence of creating a student-centered learning environment
- Research/lab experience that includes working with students from diverse backgrounds
- Experience adopting inclusive approaches to mentoring
- Academic (teaching or research) experience at an ABET accredited institution
- Post-doctoral or industry experience
- A record of receiving grant funding or potential for receiving external funding from government agencies, private companies, and/or scientific societies

Application Deadline:

Screening of applications will begin **November 21, 2023**. Priority will be given to applicants who meet the screening deadline; however, the position will remain open until filled.

How to Apply:

Candidates should apply by completing the CSUN online application. To submit an application and for more detailed information on the application and hiring process, please visit this link: www.csun.edu/careers

Applicants must submit a cover letter that contains specific content that addresses: 1) how you would make a unique contribution to the department; 2) a preliminary plan for establishing your independent research program; 3) your experience working with a diverse population. Applicants must submit the cover letter, curriculum vitae, a research statement, a teaching statement, and the names, titles, addresses, and telephone numbers of at least three referees who can address the candidate's teaching, research, and service qualifications to the website in the section above. In later phases of the search process, applicants may be requested to provide additional materials, including letters of recommendation, verification of terminal degrees, licenses and certificates, professional work samples and evidence of student mentoring.

At time of appointment, the successful candidate, if not a U.S. citizen, must have authorization from the United States Citizenship and Immigration Services (USCIS) to work in the United States.

General Information:

In compliance with the Annual Security Report & Fire Safety Report of Campus Security Policy and Campus Crime Statistics Act, California State University, Northridge has made crime-reporting statistics available online [here](#). Print copies are available by request from the Department of Police Services, the Office for Faculty Affairs, and the Office of Equity and Diversity.

The person holding this position may be 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.

As a condition of employment, all employees need to certify vaccination status by attesting they are fully vaccinated, need a medical exemption, need a religious exemption, or are not working on campus. You can obtain more information about or access the full vaccination policy [here](#).

In accordance with the California State University (CSU) Out-of-State Employment Policy, the CSU is a state entity whose business operations reside within the State of California and prohibits hiring employees to perform CSU-related work outside of California.

CSUN is an Equal Opportunity Employer and prohibits discrimination on the basis of race, color, ethnicity, religion, national origin, age, gender, gender identity/expression, sexual orientation, genetic information, medical condition, marital status, veteran status, and disability. Our nondiscrimination policy is set forth in [CSU Executive Order 1096](#). Reasonable accommodations will be provided for applicants with disabilities who self-disclose by contacting the office of Mechanical Engineering at 818-677-2187.