



BHL

03/20/2023

FACULTY POSITION ANNOUNCEMENT PART-TIME (formerly AA-6)

Department: Mechanical Engineering

Effective Date of Appointment: Fall 2023 & Spring 2024

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CSUN's Commitment to You:

CSUN is committed to achieving excellence through teaching, scholarship, learning and inclusion. As an HSI (Hispanic Serving Institution), CSUN welcomes candidates whose experience in teaching, research, or community service has prepared them to contribute to our commitment to diversity and inclusive excellence. 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 our website at: http://www.csun.edu

About the College:

For information about the College, visit our website at: https://www.csun.edu/engineering-computer-science

About the Department:

For information about the department, visit our website at: https://www.csun.edu/engineering-computer-science/mechanical-engineering

ANTICIPATED NEEDS:

Note: All part-time faculty appointments are temporary and do not confer academic rank. Final determination of part-time teaching assignments is contingent upon student enrollment figures and funding. Working in the State of California is a condition of employment.

Demonstrated ability to teach/mentor a diverse student population is a minimum qualification for the positions listed below.

Salary Range: \$4,650 to \$8,000 monthly base rate; salaries are commensurate with qualifications.

Table with 2 columns: Course Specialization and Required Minimum Qualifications. Rows include ME 101/L, ME 186/L, ME 209, ME 280, ME 286, ME 309, and ME 330.

<i>ME 335/L: Mechanical Measurements and Lab</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in experimentation and data acquisition; knowledge of LabView
<i>ME 370: Thermodynamics</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 375: Heat Transfer I</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 376: Heat Transfer in Electrical and Electronic Systems</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 384: System Dynamics: Modeling, Analysis</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong and Simulation background and/or teaching experience in system dynamics
<i>ME 386/L: Computer-Aided Analysis and Design and Lab</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in finite element analysis
<i>ME 390: Fluid Mechanics</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 415: Kinematics of Mechanisms</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in kinematics
<i>ME 430: Machine Design Applications</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in machine design
<i>ME 431/L: Machine Design and Manufacturing</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in machine design; knowledge of CNC machining
<i>ME 434: Geometric Dimensioning and Tolerancing</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in GD&T; knowledge of ASME standards
<i>ME 435: Mechatronics</i>	BS and MS (or equivalent) in Mechanical or Electrical Engineering or related field; background and/or teaching experience in mechatronic systems
<i>ME 435L: Mechatronics Lab</i>	BS and MS (or equivalent) in Mechanical or Electrical Engineering or related field; background and/or teaching experience in mechatronic hardware and components
<i>ME 436/L: Mechanics and Design of Composite Materials and Lab</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or experience in applied mechanics and composites
<i>ME 460: Automotive Engineering</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or experience in vehicle dynamics

<i>ME 462: Internal Combustion Engines</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or experience in IC engines
<i>ME 470: Thermodynamics II</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 476: Heat Transfer II</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 482: Fundamentals of Alternative Energy & Fuel Cell Technology</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in energy and thermal-fluids
<i>ME 483: Alternative Energy Engineering II</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in energy and thermal-fluids
<i>ME 484/L: Control of Mechanical Systems and Lab</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in control systems
<i>ME 485: Introduction to Environmental Engineering</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; industry and/or teaching experience in thermal-fluids and environmental engineering
<i>AE 486A/B and ME 486A/B: Senior Design in Aerospace/Mechanical Engineering I/II</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong industry and/or teaching experience in design; ability to supervise large engineering student teams
<i>ME 490: Fluid Dynamics</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluids
<i>ME 491: Thermal-Fluids Lab</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluid hardware
<i>ME 493: Hydraulics</i>	BS and MS (or equivalent) in Mechanical Engineering or related field; strong background and/or teaching experience in fluids and hydraulics
<i>ME 501A: Seminar in Engineering Analysis I</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in numerical and mathematical analysis
<i>ME 501B: Seminar in Engineering Analysis II</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in numerical and mathematical analysis
<i>ME 515: Dynamics of Machines</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in dynamics
<i>ME 520: Robot Mechanics and Control</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in robotics
<i>ME 522: Autonomous Intelligent Vehicle</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in robotics and autonomous systems

<i>ME 530: Mechanical Analysis of Solids</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in applied mechanics and elasticity
<i>ME 532: Mechanical Design with Polymers</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in applied mechanics and polymers
<i>ME 536: Mechanical Design with Composites</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in applied mechanics and composites
<i>ME 575: Applied Heat and Mass Transfer</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluids
<i>ME 583: Thermal-Fluid Systems Design</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in design of thermal-fluid systems
<i>ME 584: Modeling and Simulation of Dynamic Systems</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in advanced system dynamics
<i>ME 590: Advanced Fluid Dynamics</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluids
<i>ME 593: Compressible Flow</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluids
<i>ME 630: Computer-Aided Design of Machinery</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in this specialization
<i>ME 670: Advanced Topics in Thermodynamics</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluids
<i>ME 675A: Conductive and Radiative Heat Transfer</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in heat transfer
<i>ME 675B: Convective Heat and Mass Transfer</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in heat transfer
<i>ME 684: Design and Control of Dynamic Systems</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in controls and system dynamics
<i>ME 686A/B: Advanced Modeling, Analysis and Optimization</i>	BS and MS or PhD in Mechanical Engineering or related field; strong modeling and analysis background and/or experience in optimization
<i>ME 692: Computational Fluid Dynamics</i>	BS and MS or PhD in Mechanical Engineering or related field; strong background and/or experience in CFD
<i>AE 472: Aeropropulsion Systems</i>	BS and MS (or equivalent) in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aeropropulsion systems

<i>AE 480: Fundamentals of Aerospace Engineering</i>	BS and MS (or equivalent) in Mechanical or Aeronautical Engineering or related field; background and/or experience in aerospace systems
<i>AE 572: Rocket Propulsion</i>	BS and MS (or equivalent) in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in rocket propulsion
<i>AE 586: Aircraft Design</i>	BS and MS (or equivalent) in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aircraft design
<i>AE 589: Aerodynamics</i>	BS and MS (or equivalent) in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aerodynamics
<i>AE 672: Advanced Topics in Aero-Propulsion</i>	BS and MS or PhD in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in propulsion systems
<i>AE 680: Flight Vehicle Performance</i>	BS and MS or PhD in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in flight dynamics
<i>AE 689: Advanced Aerodynamics</i>	BS and MS or PhD in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aerodynamics

Preferred Qualifications for all course specializations (should be addressed in the cover letter):

- 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

Application Process:

Applicants must submit a cover letter that specifically addresses your experience working with a culturally diverse population, a current resume, faculty interest form listing the courses that you would like to teach (available at <https://www.csun.edu/engineering-computer-science/mechanical-engineering/faculty-openings>), and two recommendation letters. In later phases of the search process, applicants may be requested to provide verification of terminal degrees, licenses and certificates.

At the 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.

Application Deadline:

For Fall 2023 only/ AY 2023 – 2024:

April 3, 2023

For Spring Semester 2024 Only:

November 6, 2023

Inquiries and applications should be addressed to:

Office Manager
 Department of Mechanical Engineering
 California State University, Northridge
 18111 Nordhoff Street
 Mail Drop 8348
 Northridge, CA 91330
medepartment@csun.edu

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 on-line [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. Failure to satisfactorily complete the background check may affect the status of applicants. Please note that working in the state of California is a condition of employment.

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 Department of Mechanical Engineering, (818) 677-2187.