

Department: Mechanical Engineering

Effective Date of Appointment: Fall 2021 & Spring 2022

CSUN's Commitment to You:

CSUN is committed to achieving excellence through teaching, scholarship, learning and inclusion. As both an AANAPISI & HSI (Asian American and Native American Pacific Islander Serving Institution & 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.

Salary Range: *Salaries are commensurate with qualifications*

Course Specialization	Qualifications
<i>ME 101/L: Introduction to Mechanical Engineering and Lab</i>	MS or equivalent in Mechanical Engineering or related field; teaching or industry experience in engineering
<i>ME 186/L: Computer-Aided Design and Lab</i>	MS or equivalent in Mechanical Engineering or related field; industry or academic experience in solid modeling; knowledge of SolidWorks
<i>ME 209: Programming for Mechanical Engineers</i>	MS or equivalent in Mechanical Engineering or related field; industry or academic experience in scientific programming
<i>ME 280: Differential Equations for Mechanical Engineers</i>	MS or equivalent in Mechanical Engineering or related field; strong background and/or teaching experience in this specialization
<i>ME 286: Mechanical Engineering Design</i>	MS or equivalent in Mechanical Engineering or related field; industry or academic experience in mech. design; knowledge of SolidWorks
<i>ME 309: Numerical analysis of Engineering Systems</i>	MS or equivalent in Mechanical Engineering or related field; strong background and/or teaching experience in numerical analysis
<i>ME 330: Machine Design</i>	MS or equivalent in Mechanical Engineering or related field; strong background and/or teaching experience in machine design
<i>ME 335/L: Mechanical Measurements and Lab</i>	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>	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>	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>	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>	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>	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>	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>	MS or equivalent in Mechanical Engineering or related field; strong background and/or teaching experience in kinematics
<i>ME 430: Machine Design Applications</i>	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>	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>	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>	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>	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>	MS in Mechanical Engineering or related field; strong background and/or experience in applied mechanics and composites
<i>ME 460: Automotive Engineering</i>	MS in Mechanical Engineering or related field; strong background and/or experience in vehicle dynamics
<i>ME 462: Internal Combustion Engines</i>	MS in Mechanical Engineering or related field; strong background and/or experience in IC engines
<i>ME 470: Thermodynamics II</i>	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>	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>	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>	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>	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>	MS or equivalent in Mechanical Engineering or related field; industry and/or teaching experience in thermal-fluids and environmental engineering
<i>ME 486A/B: Senior Design in Mechanical Engineering I/II</i>	MS or equivalent in Mechanical Engineering or related field; strong industry and/or teaching experience in design; able to supervise large engineering teams
<i>ME 490: Fluid Dynamics</i>	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>	MS or equivalent in Mechanical Engineering or related field; strong background and/or teaching experience in thermal-fluid hardware
<i>ME 493: Hydraulics</i>	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>	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>	MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in numerical and mathematical analysis
<i>ME 503: Biomedical Instrumentation</i>	MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in biomedical instrumentation
<i>ME 515: Dynamics of Machines</i>	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>	MS or PhD in Mechanical Engineering or related field; strong background and/or teaching experience in robotics
<i>ME 522: Autonomous Intelligent Vehicle</i>	MS or PhD in Mechanical Engineering or related field; strong background and/or experience in robotics and autonomous systems
<i>ME 532: Mechanical Design with Polymers</i>	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>	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>	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>	MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluid systems
<i>ME 584: Modeling and Simulation of Dynamic Systems</i>	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>	MS or PhD in Mechanical Engineering or related field; strong background and/or experience in thermal-fluids
<i>ME 593: Compressible Flow</i>	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>	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>	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>	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>	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>	MS or PhD in Mechanical Engineering or related field; strong background and/or experience in heat transfer
<i>ME 686A/B: Advanced Modeling, Analysis and Optimization</i>	MS or PhD in Mechanical Engineering or related field; strong Optimization I/II background and/or experience in this specialization
<i>ME 692: Computational Fluid Dynamics</i>	MS or PhD in Mechanical Engineering or related field; strong background and/or experience in CFD
<i>AE 472: Aeropropulsion Systems</i>	MS or equivalent in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aeropropulsion
<i>AE 480: Fundamentals of Aerospace Engineering</i>	MS or equivalent in Mechanical or Aeronautical Engineering or related field; background and/or experience in aerospace systems
<i>AE 572: Rocket Propulsion</i>	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>	MS or equivalent in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aircraft design
<i>AE 589: Aerodynamics</i>	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>	MS or PhD in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in propulsion systems
<i>AE 689: Advanced Aerodynamics</i>	MS or PhD in Mechanical or Aeronautical Engineering or related field; strong background and/or experience in aerodynamics

Application Process:

Applicants must submit a **current resume, cover letter designating specific courses or areas of teaching interest, a list of references, “Faculty Interest” form (available at <https://www.csun.edu/engineering-computer-science/mechanical-engineering/faculty-openings>), two (2) letters of recommendation, and (whenever possible) hours of availability.** In later phases of the search process, applicants may be requested to provide verification of terminal degrees, licenses and certificates.

Application Deadline:

For Fall 2021 only/ AY 2021 – 2022:
April 5, 2021

For Spring Semester 2022 Only:
November 8, 2021

Inquiries and applications should be addressed to:

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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.

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, elaine@csun.edu.