Associate Professor - Mechanical Engineering
Clemson University

Job Title	Associate Professor - Mechanical Engineering
Department	Mechanical Engineering
Institution	Clemson University Clemson, South Carolina
Date Posted	Feb. 19, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Associate Professor
Academic Field(s)	Mechanical Engineering
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Job Description	

Position Title: Associate Professor - Mechanical Engineering

Department: College: College of Engineering, Computing and Applied Sciences

Location: Charleston, SC

Open Date: Feb 13, 2024

Description

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The Department of Mechanical Engineering inside the School of Mechanical and Automotive Engineering (SMAE) at Clemson University invites applicants for the Clemson University Restoration Institute (CURI) campus in North Charleston. The Department has a particular interest in applicants with expertise in modeling, simulation and advanced controls of wind turbines. The position is targeted at the level of Associate or Full Professor. CURI houses a $98M power facility initiated in 2009 from a $45M Department of Energy grant. The facility includes the Dominion Energy Innovation Center which contains the world’s most-advanced wind-turbine drivetrain testing facility capable of full-scale highly accelerated mechanical and electrical testing of advanced drivetrain systems for wind turbines. The Dominion Energy Innovation Center also houses the Duke Energy Electrical Grid Research Innovation and Development (eGRID) Center, a facility with real-time simulation and 20MVA hardware-in-the-loop capability. Although all areas related to modeling, simulation, and control of wind turbine will be considered, a particular focus on dynamic load assessment, failure prediction, condition monitoring, and advanced control strategies for stable drive-train test-rig operation is using the existing facilities are key preferences. The applicants are expected to build a strong research program that attracts federal, state, and corporate funding by leveraging the state-of-the-art and unique drive train test rig facility at CURI.

Candidates must possess a Ph.D. degree in Mechanical Engineering or a closely related field with the potential to develop an internationally recognized, interdisciplinary research program. Faculty are expected to actively contribute to the Department's core graduate and undergraduate teaching missions. Applications from women, members of underrepresented minority groups, veterans, and persons with disabilities will be particularly welcomed. Appointment to this position requires the receipt of the Ph.D. degree prior to the start date of appointment.

The Department has over 35 tenured/tenure track faculty and full-time/part-time lecturers actively involved in research, teaching, and service endeavors. The Department occupies a modern research and education facility on the main Clemson, SC campus and has an enrollment of over 900 undergraduate and 200 graduate students. Clemson University is a public land-grant institution ranked in the top 25 public institutions in America, according to recent Wall Street Journal/College Pulse rankings and is classified as a Tier 1 Research Institution by the Carnegie Foundation. The Clemson campus is located between Atlanta, GA and Charlotte, NC, near Greenville, SC, along the I-85 corridor in the beautiful upstate of South Carolina. The Department has a graduate education center in Charleston, SC, with activities associated with the world’s most advanced wind-turbine drivetrain testing facility. Please see https://www.clemson.edu/cecas/departments/me/ for the information on the department’s research areas, lab facilities, and faculty expertise.

The College of Engineering, Computing and Applied Sciences (CECAS) at Clemson University is

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continuing to build a strong international presence in the power and energy area. With significant laboratory facilities on the main Clemson campus, the ICAR campus in Greenville and the Clemson University Restoration Institute (CURI) campus in North Charleston, there are tremendous opportunities to advance research in the power and energy area. The main campus includes state-of-the-art real-time simulation facilities for research in intelligent control of the: electric grid, maritime ship power systems, and automotive energy systems. Additionally, Clemson University has a thriving undergraduate and graduate emphasis in power and energy systems. More information regarding the energy systems area for the CURI campus can be found at: https://www.clemson.edu/cecas/departments/charleston/about/index.html.

Qualifications

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Application Instructions

Application Instructions Applicants should submit a current curriculum vitae, statements of research and teaching strategy, a statement of Diversity, Equity and Inclusion, and a minimum of five references with full contact information. Application material should be submitted electronically at the following Web link: http://apply.interfolio.com/141010.Application material must be received by March 25, 2024 to receive full consideration, though the search will remain open until the position is filled.

Equal Employment Opportunity Statement

Clemson University is an AA/EEO employer and does not discriminate against any person or group on the basis of age, color, disability, gender, pregnancy, national origin, race, religion, sexual orientation, veteran status or genetic information. Clemson University is building a culturally diverse faculty and staff committed to working in a multicultural environment and encourages applications from minorities

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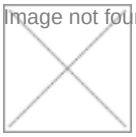
and women.



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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Maday@clemson.edu
Mechanical Engineering
Clemson University
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