Assistant Professor—Search # 67645
Allen E. Paulson College of Engineering and Computing
Department of Mechanical Engineering

The Department of Mechanical Engineering in the Allen E. Paulson College of Engineering and Computing invites applications and nominations for the position of Assistant Professor of Mechanical Engineering. This position is located on the Armstrong campus, but may require teaching on the other campuses.

Georgia Southern University is the state's largest and most comprehensive center of higher education south of Atlanta. With 141 degree programs at the associate's, bachelor's, master's, and doctoral levels, Georgia Southern is designated a Carnegie Doctoral/Research university and serves more than 27,000 students on three vibrant campuses—the Armstrong campus in Savannah, the Statesboro campus, and the Liberty campus in Hinesville. Georgia Southern offers an attractive campus environment that encourages learning, discovery, and personal growth. Nationally accredited academic programs prepare diverse scholars for leadership and service as working citizens.

Since 1906, the University's hallmark has been a culture of engagement that bridges theory with practice, extends the learning environment beyond the classroom, and promotes student growth and life success. Central to the University's mission is the faculty's dedication to excellence in teaching and the development of a fertile learning environment exemplified by a free exchange of ideas, high academic expectations, and individual responsibility for academic achievement. Faculty, staff, and students embrace core values expressed through integrity, civility, kindness, collaboration, and a commitment to lifelong learning, wellness, and social responsibility.

Within this setting, the Department of Mechanical Engineering offers undergraduate courses in support of nearly 1,200 students in mechanical engineering (energy science, materials and manufacturing, mechatronics, design and analysis), engineering science, and graduate courses leading to an MSME. Both the curricular and the research activities of the faculty have a strong applied emphasis, bridging theory with practice, extending the learning environment beyond the classroom, and offering a student-centered environment enhanced by technology and transcultural experiences within private and public partnerships. The successful candidate is expected to contribute to the mission of the department by (1) developing and teaching undergraduate and graduate-level lecture and laboratory courses, (2) establishing a funded research program that involves university colleagues, graduate and undergraduate students, and (3) engaging in professional service that technically and economically enriches our various communities and societies.

<u>Position Description</u>. Based on the Armstrong campus and reporting to the Chair of Mechanical Engineering, the Assistant Professor in Mechanical Engineering with emphasis in Energy Science will be required to (1) develop and teach undergraduate and graduate courses (lecture and laboratory); (2) develop a successful research program (including writing proposals and managing grants, obtaining external funding, and preparing peer reviewed scholarly publications) that engages both graduate and undergraduate students; (3) supervise MSME theses and undergraduate projects; (4) assist in academic and professional mentoring of graduate and

undergraduate students; (5) participate in program assessment and execution of a continuous improvement plan; and (6) participate in academic and professional service activities. The position is a 9/10-month, tenure-track appointment, and the salary is competitive and commensurate with qualifications and experience.

Required Qualifications:

- Ph.D., D.Eng. or equivalent terminal degree in Mechanical Engineering or a closely related discipline by August 1, 2019
- B.S. (or equivalent) degree in Mechanical Engineering or a closely related discipline
- Effective English communications (verbal and written)
- Ability to develop and teach lectures and laboratories at the undergraduate and graduate levels
- Demonstrated potential to develop funded research programs in an appropriate area of expertise
- Authorization to work in the United States for the duration of employment without assistance from the institution

Preferred Qualifications:

- The potential to develop and teach undergraduate and graduate energy science lectures and laboratories such as: Thermodynamics, Fluid Mechanics, Heat Transfer, HVAC, Combustion, Engine Design/ Development/Testing, Computational Fluid Dynamics, Energy System Analysis
- An ability to develop and teach undergraduate and graduate general engineering science lectures and laboratories such as: Statics, Dynamics, Strength of Materials, Engineering Graphics, Mechanical Design, Mechatronics, Computational and Numerical Methods for Engineers, and Capstone Design)
- The potential to develop funded research programs in the area(s) of energy science, heat transfer, computational fluid dynamics, thermal and fluid transport processes, turbo machinery and steam generators, optical diagnostic techniques, fuels development, characterization and modeling, combustion modeling, engine design and development, engine performance optimization, engine instrumentation and controls, renewable energy, and/or hybrid systems
- An ability to proficiently use software such as ANSYS FLUENT, AVL FIRE, KIVA, CHEMKIN-PRO, ADAMS, GT-Power, CONVERGE, OPEN FOAM, and/or LAB VIEW
- A record of scholarship and participation in professional activities
- Experience with ABET accreditation and/or continuous improvement activities

Screening of applications begins December 28, 2018, and continues until the position is filled. The preferred position starting date is August 1st 2019. A complete application consists of a letter addressing the qualifications cited above; a curriculum vitae; a one to two page statement addressing teaching philosophy; a one to two page statement outlining a proposed research program; and the names, addresses, telephone numbers, and email addresses of at least three (3) professional references. Other documentation may be requested. Only complete applications submitted electronically will be considered. Finalists will be required to submit to a background investigation. Applications and nominations should be sent to:

Dr. Priya Goeser, Search Chair, Search #67645
Department of Mechanical Engineering
Georgia Southern University
Electronic mail: pgoeser@georgiasouthern.edu
Telephone: 912-344-2874

More information about the institution is available through http://www.georgiasouthern.edu or https://cec.georgiasouthern.edu/mechanical-engineering/. Georgia Southern University seeks to recruit individuals who are committed to working in diverse academic and professional communities and who are committed to excellence in teaching, scholarship, and professional service within the University and beyond. The names of applicants and nominees, vitae, and other non-evaluative information may be subject to public inspection under the Georgia Open Records Act. Georgia Southern University is an Affirmative Action, Equal Opportunity institution. Individuals who need reasonable accommodations under the ADA to participate in the search process should contact the Vice Provost.