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Research Assistant Professor Positions

The Department of Mechanical Engineering at The University of Alabama (http://me.eng.ua.edu) invites qualified candidates for two non-tenured track, renewable contract positions as Research Assistant Professor. Both positions require Ph.D. degree in Mechanical Engineering or a related engineering field, and background and experience in combustion with focus on internal combustion engines (ICEs): (1) the first position requires experimental background in combustion experiments at high-pressures including skills to perform engine dynamometer tests. Knowledge of thermal-fluid instrumentation, emissions measurements, data acquisition systems, engine control units, and ability to program hardware and analyze experimental data is necessary. Familiarity with optical diagnostics techniques for flow and species measurements is desirable, and (2) the second position requires computational experience and background to perform high-performance, multi-dimensional CFD analysis of ICEs. An ideal candidate will have extensive knowledge of commercial codes such as CONVERGE CFD and ANSYS FLUENT, and/or open-source code OPEN FOAM. The candidate is expected to be well-versed in formulating turbulence and chemical kinetics models and implementing them in CFD codes to investigate auto-ignition, combustion, and emissions behavior of fossil and alternative fuels.

Additional Position Information

Applicants must have a Ph.D. in mechanical engineering or a closely related field by the date of appointment. Industrial and/or post-doctoral experience is desirable. Applicants must be US citizen or permanent residents of the US and must qualify as a US person. Applicants must demonstrate the potential to strengthen the research program in the engine/combustion area, collaborate effectively with other faculty in the Engines and Combustion Laboratory (ECL), work with graduate and undergraduate students in various combustion/engine related research projects, and the ability to independently secure external research funding from various federal agencies and other sources.

How to Apply

Applicants should apply online at https://facultyjobs.ua.edu/postings/45957 (requisition number 0812242). Required application documents include a letter of application, a detailed CV, statements of research background and interests, and a list of at least 3 professional references.
Inquiries about the position or additional information should be addressed to Dr. Ajay K. Agrawal, Robert F. Barfield Endowed Chair Professor, Department of Mechanical Engineering, via email at aagrawal@eng.ua.edu or calling (205) 348-4964. Review of applications will begin on or before November 1, 2019 but will continue until the positions are filled.

For more information about the Mechanical Engineering Department within the College of Engineering at the University of Alabama, click here.

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