Department of Mechanical Engineering Faculty Positions

The Department of Mechanical Engineering at Virginia Tech invites applications for **five open faculty positions** in the general areas listed below. These tenure-track or tenured positions could be filled at the Assistant, Associate, or Full Professor level as designated below. Exceptional candidates will be considered for named professorships.

1. **Combustion** (open rank): Areas include aerospace propulsion systems, turbomachinery, biofuels, fuel blends, advanced combustion diagnostics, automobile engine systems, and combustion dynamics (experimental or simulation-based). Job number **TR0150154**. Search committee chair: Prof. Scott Huxtable (huxtable@vt.edu).

2. **Energy (Nuclear Engineering)** (open rank): Job number **TR0150152**. Search committee chair: Prof. Ali Haghighat (haghighat@vt.edu).

3. **Energy** (Assistant and Associate Professor level): Areas include Sustainable/renewable/alternate energy; microbial fuel cells; thermo-magnetics energy harvesting, and energy systems integration. Job number **TR0150155**. Search committee chair: Prof. Lei Zuo (leizu@vt.edu).

4. **Advanced Manufacturing/Materials** (Assistant and Associate Professor level): Advanced manufacturing; materials processing (metals, ceramics, and composites); hybrid manufacturing processes; novel optical, acoustic and thermal metamaterials. Job number **TR0150156**. Search committee chair: Prof. Chris Williams (cbwilliams@vt.edu).

5. **Bio-inspired Science and Engineering** (Assistant and Associate Professor level): Bio-inspired locomotion, bio-inspired integrated sensors, actuators, and control systems; bio-inspired materials and devices. Job number **TR0150159**. Search committee chair: Prof. Bahareh Behkam (behkam@vt.edu).

Blacksburg is located in the Blue Ridge Mountains and is widely recognized by national rankings as a vibrant and desirable community with affordable living, world-class outdoor recreation, an active arts community, and a diverse international population. The Department of Mechanical Engineering, which includes a Nuclear Engineering Program, has 57 faculty, research expenditures of approximately $15M, and a current enrollment of 342 graduate students, and over 1100 undergraduate students. The Department is ranked 15th and 16th out of all mechanical engineering departments in the nation in undergraduate and graduate education, respectively, by the 2015 U.S. News and World Report. The Department includes several research centers and its faculty members are engaged in diverse multidisciplinary research activities. The mechanical engineering faculty also benefit from a number of university-wide institutes such as the Institute for Critical Technology and Applied Science (ICTAS), College level centers such as the Rolls-Royce and the Commonwealth of Virginia Center for Aerospace Propulsion Systems (CCAPS), the recently established Rolls Royce University Technology Center (UTC) in advanced systems diagnostics, and the Virginia Center for Autonomous Systems (VaCAS).

Applicants must hold a doctoral degree in engineering or a closely related discipline. We are seeking highly qualified candidates committed to a career in research and teaching. The successful candidates will be responsible for mentoring graduate and undergraduate students, teaching courses at the undergraduate and graduate levels, and developing an internationally recognized research program. Candidates should apply online at [www.jobs.vt.edu](http://www.jobs.vt.edu) to the appropriate posting number given above. Applicants should submit a cover letter, a curriculum vitae including a list of published journal articles, a one-page research statement, a brief statement on teaching preferences, and the names of five references that the search committee may contact. Review of applications for all positions will begin on **December 10, 2015** and will continue until the positions are filled.

Virginia Tech is committed to diversity and seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Virginia Tech is a recipient of the National Science Foundation ADVANCE Institutional Transformation Award to increase the participation of women in academic science and engineering careers ([www.advance.vt.edu](http://www.advance.vt.edu)).
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