



Department of Mechanical Engineering Faculty Positions

The Department of Mechanical Engineering at Virginia Tech invites applications for **three 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 **TR0160122**. Search committee chair: Prof. Scott Huxtable (huxtable@vt.edu).
2. **Design & Advanced Manufacturing** (Assistant and Associate Professor level): Areas include design methodology, design optimization, materials design, computer-aided design, and modeling and simulation of advanced manufacturing processes. Job number **TR0160125**. Search committee chair: Prof. Chris Williams (cbwill@vt.edu).
3. **Dynamic Systems and Control** (open rank): Areas include robotics and autonomous systems, control and information theory, perceptions and intelligent systems, signal processing and estimation, mechatronics, and system dynamics. Particularly desirable are areas such as human-machine interaction, modeling and control of social and behavioral systems, bioinspired robotics, and social robotics. Job number **TR0160124**. Search committee chair: Prof. Alexander Leonessa (aleoness@vt.edu).

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).

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 (<http://www.me.vt.edu/>), which includes a Nuclear Engineering Program, has 61 faculty, research expenditures of over \$16M, and a current enrollment of 340 graduate students with 180 students at doctoral level, and over 1100 undergraduate students. The Department is ranked 13th and 16th out of all mechanical engineering departments in the nation in undergraduate and graduate education, respectively, by the 2017 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), the Biocomplexity Institute, Virginia Tech Transportation Institute (VTTI); College level centers such as the recently established Rolls-Royce University Technology Center (UTC) in advanced systems diagnostics, and the Virginia Center for Autonomous Systems (VaCAS); and state level industry-academic research centers such as the Commonwealth Center for Aerospace Propulsion Systems (CCAPS) and the Commonwealth Center for Advanced Manufacturing (CCAM).

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 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 5, 2016** and will continue until the positions are filled.