Open-rank Faculty Positions in Mechanical Engineering

The Department of Mechanical Engineering at Columbia University in New York City invites applications for tenure-track or tenured faculty positions. Appointments at the assistant professor, associate professor and full professor, will be considered.

The Department’s priority areas are (1) medical robotics and (2) energy conversion and storage, and the successful candidate will contribute to the advancement of the field by developing an externally funded research program, contributing to the undergraduate and graduate teaching mission of the Department and by fully participating in professional service activities. The successful candidate is expected to establish multidisciplinary research collaborations with other programs at Columbia University.

(1) Medical robotics: Possible research areas may include, but are not limited to: surgical intervention/assistance, rehabilitation, haptics and design of systems for haptic rendering, biorobotics, image-guided intervention, and human-robot interactions. Candidates should have a strong background in kinematics, mechanical design, dynamics, and control. (2) Energy conversion and storage: Possible research areas may include, but are not limited to: renewable energy conversion, harvesting and storage, nano-scale and nano-structured materials for energy conversion and storage, and innovative technologies for system integration. Candidates should have a strong background in thermofluid sciences.

Candidates working at the interface between physical sciences, life sciences and computer science are also encouraged to apply. Excellent opportunities exist for multidisciplinary collaborations.

Assistant Professors at Columbia are academic officers holding the doctorate or its professional equivalent who are beginning a career of independent scholarly research and teaching.

Associate Professors at Columbia are academic officers holding the doctorate or its professional equivalent who have demonstrated scholarly and teaching ability and show great promise of attaining distinction in their fields of specialization.

Professors at Columbia are academic officers holding the doctorate or its professional equivalent who are widely recognized for their distinction. Candidates for senior-level appointment must have a distinguished record of achievement and evidenced by leadership in their field of expertise, publications, professional recognition, as well as a commitment to excellence in teaching.

Candidates should apply online at: https://academicjobs.columbia.edu/applicants/Central?quickFind=53970 and should submit the following documents electronically: curriculum-vitae including a list of publications, a statement of research/teaching interests and plans, contact information for five references who can provide letters of recommendation, and up to three pre/reprints. To receive full consideration, candidates should apply by January 10, 2011. Review of applications will continue until the positions are filled. Positions will be available beginning July 1, 2011.

Applicants may consult http://www.me.columbia.edu/ for more information about the department.

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