

***Faculty Position(s) Available in
Biological Engineering
Department of Biological and Environmental Engineering, Cornell University***

Position: Assistant/Associate Professor, Tenure-track.

Location: Cornell University, Ithaca, NY 14853-5701. The academic home for this position is the Department of Biological and Environmental Engineering in the College of Agriculture and Life Sciences.

Position Description and Responsibilities:

This biological engineering tenure-track position requires a balanced effort between research (50%) and teaching (50%) on a 9-month academic year basis. Improved, biology-based engineering strategies for harnessing the utility and sustainability of biological and environmental systems are critical, especially in this unprecedented period of environmental change. Cutting-edge research is needed to mimic, interface with and utilize biological systems at all scales from nano to macro for a wide range of applications including but not limited to nanobiotechnology, molecular and cellular bioengineering, bio-robotics, chemical and novel material synthesis, biosensing and food security, digital agriculture, water resource management, and alternative energy for a sustainable economy.

To address the ever increasing challenges of meeting the needs of a growing population of people with limited resources, this position in particular seeks candidates whose research program will be focused on ***biological engineering for a better and more sustainable world***. While all sub-disciplines of biological engineering will be considered, attention will be paid to those who are ***truly inter- and intra-disciplinary minded***. Candidates are expected to establish a world-renowned research program; research directions may include but not limited to: engineering at the nano-, micro-, meso-, and macro-scale, work at the nexus of food, water and energy, digital sustainable agriculture, bio-robotics, engineering-rich biotechnology and nanobiotechnology, and biosensing in the context of food, environment, and agriculture.

We would expect applicants to have strong skills in two or more of the following areas: biological engineering, biochemical engineering, biomolecular engineering, bio-robotics, biophysics, chemical biology, molecular biology, plant or animal sciences, biogeochemistry, electrochemistry, and ecology.

The successful candidate has the chance to participate in university-wide initiatives and centers such as Atkinson Center for a Sustainable Future, the Center for Materials Research and the Center for Nanoscale Science and Technology. Collaboration within and outside the department is encouraged and expected.

Teaching responsibilities will include two courses that integrate biology with engineering; one focusing specifically on design methodologies for biological engineers at the junior level. This

course will address how coursework in biology and biochemistry can be considered through the lens of transport, thermodynamics and chemical kinetics to arrive at novel biological or biologically-inspired designs. The second course will be negotiated with the candidate upon arriving at Cornell. Advising undergraduate students and mentoring postdocs and graduate students is also expected. This individual would contribute primarily to our biological engineering BS program but would also be open to participating in our environmental engineering BS program and CALS initiatives in Environmental Science and Sustainability.

Qualifications:

A Ph.D. in an appropriate discipline is required with demonstrated capability and success in developing research and teaching programs at the interface of engineering and biological sciences. A strong background in engineering and biology is required. While both Assistant and Associate Professor ranks will be considered, preference will be for applicants at the Assistant Professor rank.

Salary and Benefits: Competitive, commensurate with background and experience. An attractive fringe benefits package is available. Support for start-up research costs will be available.

Applications and Starting Date: Anticipated starting date is July, 2018. Applications including a CV, statements of research and teaching interests, copies of relevant publications, reference letters and transcripts should be submitted online at: <https://academicjobsonline.org/ajo/jobs/9940>. Application review will begin on December 1, 2017 and will be accepted until this position is filled.

Cornell University is committed to hiring and promoting a diverse faculty.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches. Visit <http://www.unyhrc.org> to see positions available in higher education in the upstate New York area.

The College of Agriculture and Life Sciences is a pioneer of purpose-driven science and Cornell University's second largest college. We work across disciplines to tackle the challenges of our time through world-renowned research, education and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: natural and human systems; food, energy and environmental resources; and social, physical and economic well-being.

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement. With our main campus located in Ithaca, NY, Cornell's far-flung global presence includes the medical college's campuses on the Upper East Side of Manhattan and Doha, Qatar, as well as the new Cornell Tech campus opening on Roosevelt Island in the heart of New York City.

We offer a rich array of services, programs and benefits to help employees advance in their career and enhance the quality of personal life, including employee wellness, workshops, childcare and adoption assistance, parental leave and flexible work options.

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.