



**Faculty Search in Synthetic Biology & Bio-product Engineering
Department of Energy, Environmental & Chemical Engineering
Washington University in St. Louis**

The McKelvey School of Engineering & Applied Science (<https://engineering.wustl.edu>) at Washington University in St. Louis invites applications and nominations for tenured or tenure-track faculty positions in the Department of Energy, Environmental & Chemical Engineering (<https://eece.wustl.edu>). Positions are available at the Assistant, Associate, or Full Professor Level. Highly qualified individuals will be considered for Endowed Faculty appointments.

The faculty search is focused in Synthetic Biology, Systems Biology and Bio-product Engineering. Specific areas of interest include, but are not limited to computational modeling or data-driven approaches for prediction/ identifying novel target molecules, biological networks, and functions; optimizing bioprocesses for bio-production and developing scale-up strategies based on techno-economic and life-cycle analysis; bioinformatics and cheminformatics; computer-aided design for synthetic biology/metabolic engineering applications; computational analysis of bacterial gene regulatory networks, genetic circuits, microbial consortia, and microbiota; and computational modeling to predict bio-product structure/function relationships; Applicants with an interest and expertise in translating fundamental advances into practice through innovation and entrepreneurship are also encouraged to apply. The department's existing strengths in the environmental technology, aquatic systems, aerosol science and technology, synthetic biology, biomass engineering, and nanotechnology will benefit the new faculty's biological research programs.

Candidates must hold a Ph.D. in chemical engineering or bio-engineering or a related discipline. The selected faculty will be expected to build and maintain strong externally-supported research programs and to teach effectively at the undergraduate and graduate levels. Candidates for senior-level appointments (Associate or Full Professor) must have a strong record of achievement in research and teaching as well as the leadership for obtaining large federal grants. There are opportunities for collaborations with other researchers in the School of Engineering, Biology Department, Chemistry Department, and Medical School. We anticipate that the career development of new hires will benefit from participation in school-wide and university-wide initiatives on energy, environment and big data that include the International Center for Energy, Environment and Sustainability (inceeds.wustl.edu/), the McDonnell Academy Global Energy and Environment Partnership (mageep.wustl.edu), and Institute for Public Health (publichealth.wustl.edu) and the Center for Aerosol Science and Engineering (aerosols.wustl.edu), and the Institute of Materials Science and Engineering (imse.wustl.edu). Candidates interested in exploring innovation opportunities will also benefit from access to the Cortex Innovation Community (cortexstl.com) that offers a vibrant ecosystem in support of entrepreneurial activities in the St. Louis area. In addition, the new hires will significantly benefit from the shared lab facilities with high performance equipment at Washington University.

Applicants should submit a cover letter articulating their interest in this opportunity, along with their curriculum vitae, a statement of research plans, and a statement of teaching interests and philosophy to <http://academicjobsonline.org/ajo/jobs/14163>. The combined length of the research and teaching statements should not exceed five pages. Applicants should also arrange for three letters of reference to be submitted through the online system. Questions regarding the process should be directed to the search committee chair Dr. Yinjie Tang (yinjie.tang@wustl.edu). **Applications will be considered on a rolling basis until the position is filled, but priority will be given to those received by December 1, 2019.**

Washington University in St. Louis is committed to the principles and practices of equal employment opportunity. It is the University's policy to recruit, hire, train, and promote persons in all job titles without regard to race, color, age, religion, sex, sexual orientation, gender identity or expression, national origin, protected veteran status, disability, or genetic information.