

Professor (all ranks) in Synthetic and Systems Biology

Arizona State University
Ira A. Fulton Schools of Engineering
School of Biological and Health Systems Engineering
Location: Arizona State University – Tempe Campus

The [Ira A. Fulton Schools of Engineering](#) at [Arizona State University](#) (ASU) and the School of [Biological and Health Systems Engineering](#) (SBHSE) seek applicants for a tenure-track or tenured faculty position in the area of Synthetic and Systems Biology. The School of Biological and Health Systems Engineering, one of the seven Fulton Schools, houses a vibrant multidisciplinary bioengineering research community with expertise in synthetic biology, systems bioengineering, bioimaging, biosensors, molecular, cellular and tissue engineering, regenerative medicine, and neural rehabilitation engineering (learn more at <https://research.engineering.asu.edu/>). We seek applicants who complement our abilities in these areas to solve grand challenges as part of a community of experts.

Particular areas of interest include, but are not limited to: synthetic biology for microbiome, immuno, metabolic, or protein engineering; top-down or bottom-up systems biology; computational biology, machine learning, and data science as it relates to biomedical applications; proteomics, metabolomics, single-cell omics, spatial omics and multiomics integration; and regenerative medicine approaches including *in vivo* applications of human-derived stem cells, *in vivo* gene delivery and gene editing strategies, epigenetics and chromatin structure, and animal or stem cell-based model systems.

We seek applicants who will contribute to our academic programs, promote transdisciplinary teaching and research, and help the university to achieve its aspirations, including enabling student success, transforming society, valuing entrepreneurship and conducting use-inspired research. Faculty members in the Fulton Schools of Engineering are expected to develop an internationally recognized and externally funded research program, adopt effective pedagogical practices in the development and delivery of graduate and undergraduate courses, advise both undergraduate and graduate student research and projects and undertake service activities.

This search is part of ASU's engagement with the [Arizona's New Economy Initiative \(NEI\)](#), a bold effort to ensure that Arizona leads the new economy that will rely on engineering, computing and technology to drive sustainable growth, resilience and opportunities for all. NEI investments in the Fulton Schools of Engineering will grow our world class faculty to accelerate research outcomes and to broaden student access to our programs; will establish Science and Technology Centers to foster the growth of new economy industries; and will expand experiential learning and workforce training opportunities.

Appointment will be at the Assistant, Associate or Full Professor rank commensurate with the candidate's experience and accomplishments, beginning August 2023. Although the tenure home may be in any of the Ira A. Fulton Schools of Engineering, the SBHSE is currently the most involved in the interest of this research.

Qualifications

Required qualifications:

- Earned doctorate in biomedical engineering, synthetic or systems biology or related discipline by the time of appointment
- Evidence of excellence in research, as appropriate to the candidate's rank; and
- Evidence of excellence in teaching, as appropriate to the candidate's rank

Desired qualifications:

- Demonstrated commitment to a collaborative, transdisciplinary approach to research and teaching
- Commitment to equitable research and teaching practices
- Ability to engage in well-established research initiatives with numerous health care providers within the Phoenix area

Application Instructions

Application deadline is November 6, 2022. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled. To apply, visit <https://hiring.engineering.asu.edu/> and select "apply now" next to the corresponding position. Candidates will be asked to create or use an existing Interfolio Dossier to submit the following:

- Cover letter
- Curriculum Vitae
- Statement describing research interests (two pages maximum)
- Statement describing teaching interests and philosophy (two pages maximum)
- Statement describing commitment and approaches to advance Diversity, Equity, Inclusion and Belonging*
- Contact information for three references

*The ASU Charter states, "ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves." The Fulton Schools of Engineering are dedicated to continuous innovation, student success, faculty excellence, and cultivation of an environment that is diverse, equitable, inclusive and promotes belonging. The diversity statement provides applicants an opportunity to demonstrate their past and current activities in promoting diversity, equity, inclusion and belonging and how future activities will align with upholding the ASU Charter.

For additional information regarding position specifics, please contact the search committee chair, Professor Xiao Wang via email at xiaowang@asu.edu.

Equal Employment Opportunity Statement

A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.

(See <https://www.asu.edu/aad/manuals/acd/acd401.html> and <https://www.asu.edu/titleIX/>.)

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU's Annual Security and Fire Safety Report is available online at <https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf>. You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456 .