The Ira A. Fulton Schools of Engineering at Arizona State University (ASU) and the School for Engineering of Matter, Transport and Energy, one of the seven Fulton Schools, houses a vibrant engineering research community with expertise in chemical manufacturing, separations, low carbon or negative emission technologies, and sustainable fuel production (learn more at https://research.engineering.asu.edu/). We seek applicants across theoretical, experimental, and systems modeling and design research modalities who complement our existing 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: green chemical systems and processing; sustainable chemical processes design and integration; process energy recovery, reuse, and integration; low energy and sustainable chemical/fuel production; and precision control of chemical processes. In addition to expertise in one of these primary areas, candidates are sought that bring additional interests in techno-economic analyses, to help promote use-inspired solutions that contribute to ASU's ranking as the #1 institution in the US for innovation. Candidates whose research focus is on biological/metabolic engineering, biomedical engineering, additive manufacturing, general machine learning, semiconductor research, or cyclical polymer processing are encouraged to apply to those specific ASU faculty searches.

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 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 a rank (assistant, associate, or full professor) 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 School for Engineering of Matter, Transport and Energy is currently the most involved in the interest of this research.

Qualifications

Required qualifications:

- Earned doctorate in Chemical Engineering or related discipline by the time of appointment
- Evidence of excellence in research, as appropriate to the candidate’s rank
- 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
- Publications in leading journals related to the applicant’s field
- Evidence of successful proposal construction and submission to diverse funding agencies, as appropriate to the candidate’s rank
- Demonstrated impact to diversity and inclusion for broadening participation in science and engineering
- Evidence of successful implementation of student-centric teaching and engagement
- Demonstrated research focus in the area of sustainable chemicals and fuels and an innovative proposed research program based in that area.

Application Instructions
Application deadline is December 1, 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 (five pages maximum)
- Statement describing teaching interests and philosophy (two pages maximum)
- Statement describing commitment and approaches to advance Diversity, Equity, Inclusion and Belonging (DEIB)* (two pages maximum)
- Short comment on contribution to sustainability and DEIB in Interfolio
- 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. The diversity statement provides applicants an opportunity to demonstrate their past and current activities in promoting diversity, equity, and inclusion and how future activities will align with upholding the ASU Charter.

For additional information regarding position specifics, please contact the search committee co-chairs, Dr. Matthew Green and Dr. Chris Muhich via email at mdgreen8@asu.edu and cmuhich@gmail.com.

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.