



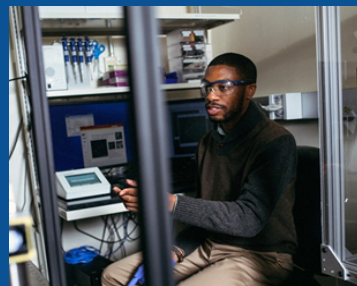
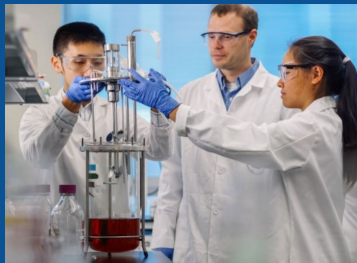
[available position]

## Department of Chemical Engineering - Ragon Institute Tenured or tenure-track faculty positions

The Ragon Institute, together with the [Department of Chemical Engineering](#) at The [Massachusetts Institute of Technology](#) (MIT), in Cambridge, MA is seeking outstanding scientists for tenured or tenure-track faculty positions to start July 1, 2021 or on a mutually agreed date thereafter. [The Ragon Institute](#) has its own recently renovated building located near the heart of MIT. The Ragon Institute was officially established in February 2009 as a joint institute involving faculty from Massachusetts General Hospital (MGH), MIT, and Harvard University. The Department of Chemical Engineering at MIT has a long-established presence as a leader in the field, and a proponent for integration of chemical engineering across areas of health and medicine.

The search is for candidate(s) to be hired at the assistant professor level; however, under special circumstances, a senior faculty appointment with tenure is possible, commensurate on experience. Applicants must have a Ph.D. in Chemical Engineering, Materials, Bioengineering or a closely related field, and/or M.D. or equivalent degree by the start of the employment, and have a track record of exceptional achievement in basic or translational research and the potential to develop an outstanding independent research program that supports the Institute's ultimate goal of harnessing the immune system to prevent and cure human diseases.

Several opportunities exist for integration of Chemical Engineering and Immunology, particularly in addressing challenges pertinent to infectious diseases and auto-immune disorders.



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Broad areas of interest include understanding the physical and biological mechanisms underlying how the immune system functions, applied virology, and efforts that leverage this knowledge and engineering design to develop therapies and vaccines that can be translated to the clinic. Particular areas of interest for joint appointment at the Ragon Institute and the Chemical Engineering department include: development of new vaccination concepts and adjuvants, the molecular design of new delivery approaches for vaccines and therapies, rapid drug development, manufacturing methods that enable increased global availability or reliability of vaccines and therapies, diagnostic approaches that enable rapid and reliable detection of pathogens, and monitoring of biomarkers of immunity. Systems biology, machine learning, physics-based modeling, and engineering approaches directed toward understanding innate and adaptive immunity with the goal of preventing and curing disease are also of interest. The applicant should have a strong research plan which can synergize with ongoing basic, applied and translational research efforts at the Ragon Institute and in the Department of Chemical Engineering.

MIT faculty duties include teaching at the undergraduate and/or graduate levels, research, and supervision of student research. The successful candidate will be provided with a generous start-up package to complement outstanding laboratory and office space, as well as access to state-of-the-art core facilities including advanced flow cytometry, microscopy, BSL-3 facilities and an extensive clinical specimen repository. The successful candidate will be expected to build and maintain an internationally recognized, extramurally funded research program complemented by substantial support from Institute funds. The candidate should possess the ability to work collaboratively with other scientists, in addition to the scholarly qualities required to mentor doctoral students from graduate programs at MIT.

Interested candidates should submit application materials electronically <https://school-of-engineering-faculty-search.mit.edu/mit-ragon>. Each application must include: a curriculum vitae; the names and addresses of three or more references; a strategic statement of research interests; and a statement of teaching interests. In addition, candidates should provide a statement regarding their views on diversity, inclusion, and belonging, including past and current contributions as well as their vision and plans for the future in these areas. It is the responsibility of the candidate to arrange for reference letters to be uploaded <https://faculty-searches.mit.edu/letters/>.

Please address questions to [Search-Admin@faculty-searches.mit.edu](mailto:Search-Admin@faculty-searches.mit.edu). Responses received by December 1, 2020 will be given priority.

With MIT's strong commitment to diversity in engineering and science education and research, we especially encourage those who will contribute to our diversity and outreach efforts to apply.

**MIT is an equal employment opportunity employer.** All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, skin color, gender identity, sexual orientation, religion, disability, age, genetic information, veteran status, ancestry, or national or ethnic origin.