

# Cornell Engineering

Spring 2021

## Senior Faculty Position in Plasma Science and Engineering

The College of Engineering, Cornell University, Ithaca Campus, invites applications for a tenured professor and the Director of the Laboratory of Plasma Studies (LPS) from outstanding established plasma and fusion research scientists and engineers. The LPS is known internationally for its world-class High Energy Density Laboratory Plasma (HEDLP) research and has been the home of a research Center of Excellence sponsored by the National Nuclear Security Administration in this field of research for nearly 20 years. The Cornell College of Engineering is a premier institution of applied science and technology research and education, including in several areas of energy related research and development. The successful applicant is expected to be a leader in plasma science and/or fusion engineering and to have aspirations to expand Cornell's footprint in fusion-related plasma science, engineering and technology research. In addition to all LPS research facilities, the successful candidate can expect to benefit from the use of such Cornell research facilities as CHES (Cornell High Energy Synchrotron Source) CCMR (Cornell Center for Materials Research) and CNF (Cornell Nanofabrication Facility) as well as from collaboration with many faculty experts in such areas as Advanced Manufacturing ("3D Printing") and advanced electromagnetics (metamaterials). The successful candidate can expect a competitive level of support for the start-up of broadened HEDLP and/or fusion technology research programs. For additional information about the position, please contact [LPS\\_Search@cornell.edu](mailto:LPS_Search@cornell.edu).

The successful candidate will have a Ph.D. and several years of experience as an HEDLP or fusion plasma research project leader. A candidate with an established record of raising funds for such research is of special interest to us. Experimentalists, theorists and computationalists are all welcome to apply. A broad background is desirable, including experience with diagnostics for pulsed plasmas, plasma theory, the tools of data analysis, and computer simulation codes that can be used to help design and understand experiments. Doctorates can be in electrical engineering, physics, applied physics, materials science and engineering, mechanical engineering, astrophysical sciences or another technical field that is consistent with a tenured appointment in a Cornell College of Engineering department. There is an expectation that the successful applicant will be willing and able to teach courses in the College and will have demonstrated promise for excellence in this skill. Salary and rank will be commensurate with qualifications and experience.

The College of Engineering is especially interested in qualified candidates who can contribute, through their research, teaching and/or service, to the diversity of the academic community and to creating a climate that attracts students of all races, genders and nationalities. Diversity and inclusion are a part of Cornell University's heritage and we especially encourage applications by members of underrepresented groups in science and engineering. We are a recognized employer and educator valuing AA/EEO, Protected Veterans and Individuals with

Disabilities. We also recognize a lawful preference in employment practices for Native Americans living on or near Indian Reservations.

Applicants should submit a curriculum vitae, a research statement, a leadership vision statement for broadening Cornell Engineering's footprint in fusion science and engineering, a teaching statement, three recent publications, complete contact information for at least 3 references, and a [Statement of Diversity, Equity and Inclusion](#). Applications must be submitted online at <https://academicjobsonline.org/ajo/jobs/18271>. Review of applications will begin in April 2021, and applications received by the end of May 2021 will receive full consideration. However, applications will continue to be accepted until the position is filled. For additional information about the application process, please contact [LPS\\_Search@cornell.edu](mailto:LPS_Search@cornell.edu). Information on the LPS can be found here: <https://www.lps.cornell.edu/>

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.

Cornell University is an innovative Ivy League university and a great place to work. There is a wide array of fringe benefits, programs and services to help advance academic careers as well as to enhance the quality of all employees' personal lives, including employee wellness, childcare and adoption assistance, parental leave and flexible work options. Our inclusive community of scholars, students and staff impart a sense of larger purpose and contribute creative ideas to further the university's missions of teaching, discovery and engagement. While Cornell's main campus in Ithaca, NY will be the location of the position discussed in this ad, Cornell's Tech Campus on Roosevelt Island in New York City, and the Weill Medical Colleges in Manhattan and Doha, Qatar, serve to broaden the reach of Cornell far beyond Upstate NY.