



CLASSE

Cornell Laboratory for Accelerator-based Science & Education

SRF Group Research Associate

September 2021

Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty and staff of all identities and backgrounds. If you don't meet 100% of job qualifications, but see yourself contributing, please submit an application. We strongly encourage individuals from underrepresented and/or marginalized identities to apply. We're a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

CLASSE (Cornell Laboratory for Accelerator-based Sciences and Education) has an opening for a Research Associate position in the SRF (Superconducting Radio Frequency) Group. This position requires a doctoral degree in physics or applied physics, with experience in SRF operation and research.

Cornell's SRF Group conducts a wide variety of fundamental SRF science and technology R&D activities, and currently supports two SRF driven accelerators at CLASSE: the Cornell Electron Storage Ring CESR, and CBETA, a novel Energy-Recovery-Linac test accelerator.

The successful candidate's focus will be on (1) the development, commissioning, operation, and optimization of RF and SRF accelerator systems for CESR, with ample opportunities for cutting-edge research and career development, and (2) on conducting and leading fundamental SRF research activities, including the development of stand-alone compact SRF modules based on next-generation Nb₃Sn SRF cavities.

This is an initial 3-year appointment with expectation for renewal, subject to mutual satisfaction and availability of funds. Applicants should have demonstrated experience in at least one of the following areas (multiple areas will be considered definite assets): fundamental SRF research, SRF cavity fabrication, preparation, cryogenic testing, and data analysis; SRF technology design, fabrication, commissioning, and operation; RF simulations and measurements; RF technology, LLRF and microphonics control for SRF accelerators. Strong written and verbal communication skills as well as the ability to work independently and in a diverse team are expected.

Located on the campus of a premier Ivy League Research University, CLASSE has a long history of excellence in various aspects of accelerator-related sciences and technology. Cornell provides an intellectually stimulating research environment with opportunities to work with undergraduate and graduate students on collaborative research. Cornell's SRF group has strong worldwide collaborations with laboratories and industrial partners, and the successful candidate is expected to further foster these.

Applications should be submitted at <https://academicjobsonline.org/ajo/jobs/19693> and should include a cover letter, a CV, a list of publications, and a detailed summary of research experience and interests. Applicants must arrange to have at least three letters of recommendation uploaded, as per instructions on the [academicjobsonline](https://academicjobsonline.org/ajo/jobs/19693) website. For information about the position, contact Dr. Matthias Liepe at MUL2@cornell.edu.

Cornell provides great benefits that include comprehensive health care options, generous retirement contributions, educational benefits (Employee Degree, Tuition Aid, Cornell Children's Tuition Assistance Programs), access to wellness programs, and employee discounts with local and national retail brands. Our leave provisions include three weeks of vacation and 13 holidays, including winter break from December 25th through January 1st.

Cornell has been nationally recognized as an award-winning workplace for our health, wellbeing, sustainability, and diversity initiatives. For more information, follow the link: [Benefits at Cornell](#).