



Research Support Specialist I (Vacuum Systems Specialist)

January 2022

Who are we?

The Cornell Laboratory for Accelerator-based ScienceS and Education (CLASSE) studies particle beams and accelerators, photon science, particle physics and the early universe, and serves students, the public and scientists from Cornell and around the world. The research missions of this laboratory are in many respects unique in the world.

Why should you apply?

We recognize our work is very challenging, often highly specialized and uncommon. CLASSE takes pride in providing relevant cross training and skill development to its entire technical staff. We ask that applicants apply for this position if they believe they might have basic transferable skills, or have great interest or passion in the work we do. Experience is important, but we place high value on intelligence, insight, potential, and the ability to contribute to our team success. All submitted resumes are taken into consideration.

What type of work will you do?

The **Vacuum System Specialist** serves the scientific mission by providing technical support to academic research personnel (students and scientists). This is a technical position that will interface directly with scientific staff to translate scientific needs into operating research instrumentation. This position will lend support to multiple research programs across the entire CLASSE complex, giving the incumbent the opportunity to gain exposure in several different technical fields.

Primary responsibilities of this position is to perform vacuum work in support of all research programs with general supervision/direction. This includes:

- Maintain, repair, install, and modify experimental equipment in support of all research operations. Monitor overall system performance to identify additional improvements
- Assist in the design and fabrication of precision components for new research projects and upgrades through consultation with staff, faculty, researchers and technicians.
- Assist in translating concepts into detailed engineering drawings. Perform analysis on proposed designs to identify potential problems and solutions.
- Identify the needs of continued operations regarding new systems and continued operations of existing systems in regards to critical spares.
- Assist in routine activities such as component bake-outs, leak-checking and pumping system maintenance.
- Occasional on-call support for operational emergencies during nights, weekends, and holidays.

What qualifications are important?

Associate's degree in engineering, science or equivalent, or two to four years of relevant technical experience involving mechanical equipment. Experience in trouble-shooting equipment issues on mechanical or vacuum systems. Proficient use of standard hand/power tools, diagnostic equipment, machine shop and material handling equipment in support of research mission. Ability to respond quickly to occasional off-hour problems and emergencies by remote communication and/or returning to Campus.

What qualifications might give you an advantage?

Bachelor's degree in engineering, science or equivalent. Advanced machine shop, fabrication and mechanical skills. Experience with experimental systems or building systems. Experience with ultra-high vacuum (UHV) components, leak

checking, and vacuum design. Computer assisted design proficiency, and advanced skills for mechanical maintenance, installation and repair techniques.

Visa sponsorship is not provided for this position. Please apply online at <https://cornell.wd1.myworkdayjobs.com/CornellCareerPage> (posting #WDR-00029649).

Effective January 1, 2022, all new Cornell hires, regardless of role and work location, must be fully vaccinated and present proof of an *FDA- or WHO- authorized or approved COVID-19* vaccination or have a university-approved disability/medical or religious exemption. Failure to demonstrate compliance with this requirement prior to the first day of work will result in the delay of employment with Cornell and may result in the offer of employment being rescinded.

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](#).

Diversity and Inclusion are a part of Cornell University's heritage. 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. Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students, and staff impart an uncommon sense of larger purpose, and contribute creative ideas to further the university's mission of teaching, discovery, and engagement. Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty and staff of all identities and backgrounds. We strongly encourage individuals from underrepresented and/or marginalized identities to apply.