



Research Support Specialist II Electrical Engineer

October 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.

We are searching for a Research Support Specialist II (Electrical Engineer) to provide electronic hardware design support for all departments within the Cornell Laboratory for Accelerator-Based Sciences and Education (CLASSE). CLASSE carries out frontier research in accelerator physics and engineering as well as supporting operation of the Cornell Electron Storage Ring (CESR) for photon science through the Cornell High Energy Synchrotron Source (CHESS). Areas of electronic design include: instrumentation, system control, equipment protection, and data acquisition. Typical responsibilities include the design of sophisticated digital and analog electronic circuitry as well as assisting in maintenance of existing accelerator electronic equipment, particularly for difficult-to-diagnose cases. Managing projects from concept to manufacture to installation. The employee is part of a small and dedicated electronics team. Occasional work out of normal working hours is required to test equipment within constraints of the accelerator operations schedule, as well as emergency trouble shooting when problems arise. Will keep knowledge current on evolving electronics industry.

What we need:

- B.S. in Electrical/Electronic Engineering, including advanced design courses or equivalent experience.
- A minimum of 3 to 5 years' experience designing and implementing state of the art electronic systems. This experience must include digital and analog electronics design with low-level FPGA programming and complex trouble shooting. Also printed circuit board design and layout.

What we would prefer:

- Extensive experience designing electronics based on programmable-logic devices (fpga's), including familiarity with hardware description languages, simulation, and programming hardware.
- A track record of working effectively in small teams is desirable, as is extensive troubleshooting experience.
- Familiarity with Linux and Windows operating systems, and EPICS control systems is a plus.
- Mechanical design experience for packaging of electronics and implementing thermal management. For instance, the use of Inventor, AutoCAD, or other packages for mechanical drawing.
- Good visual acuity and small-motor skills are highly desirable for the testing of modern high density electronic circuits.

Visa sponsorship is not provided for this position. Please apply online at <https://cornell.wd1.myworkdayjobs.com/CornellCareerPage> (posting #WDR-00028293).

Cornell University requires all employees, whether they work on campus or work fully remotely, to be fully vaccinated against COVID-19, or to have obtained a university-approved medical or religious

exemption. For additional information on this requirement, visit:

<https://hr.cornell.edu/covid/university-response/vaccination>

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:

https://hr.cornell.edu/sites/default/files/documents/benefits_overview_cc.pdf.