

# **Beam Instrumentation Electrical Engineer/Application Programming**

## **Research Accelerator Division Oak Ridge National Laboratory Oak Ridge, Tennessee**

ORNL07-65-SNS

### **Project Description:**

Position will support the Beam Instrumentation Group's LabVIEW-based computer systems and will design and build beam instruments, as well as write labVIEW applications to support accelerator commissioning and operation. Duties/responsibilities include:

1. Programming in LabView and occasionally in C/C++ to acquire and process data and perform motion control.
2. Commissioning and maintaining instruments for the SNS accelerator
3. Performing calibrations in the field or in the lab
4. Writing and maintaining drivers for PCI cards for Windows-based computers
5. Documenting the beam instrumentation systems including the test-stand and calibration results
6. Performing all work in compliance with environmental, safety, health, and quality programs
7. Collaborating with other groups to improve performance of diagnostic systems
8. Assisting in achieving the requirements for performance, reliability, safety, and documentation
9. Maintaining a strong commitment to the implementation and perpetuation of values and ethics

### **Qualifications: BS or MS degree required**

BS or MS in Engineering or Computer Science with a minimum of five years of particle accelerator working experience or an equivalent combination of education and experience is required. Candidate must be an independent LabVIEW programmer, possessing a demonstrated record of quick and successful software development for particle accelerator applications, including motion control and data-acquisition. Must have excellent written and verbal communications skills. Experience with writing C/C++ programs, PCI drivers for Windows, and maintaining PCs is highly desirable. Knowledge of signal processing is desirable.

**Required disciplines include:** Engineering, Computer Sciences

Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

**How to Apply:**

Qualified applicants may apply online at [https://www2.ornl.gov/ORNL\\_POST/](https://www2.ornl.gov/ORNL_POST/). All applicants will need to register before they can begin the online application. For complete instructions, on how to apply, please see the instructions at <http://www.ornl.gov/orise/edu/ornl/ornl-pdpm/application.htm>. When applying for this position, please reference the position title and number (ORNL07-65-SNS).

This appointment is offered through the ORNL Postdoctoral Research Associates Program and is administered by Oak Ridge Associated Universities (ORAU). This appointment is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.