



# Staff Vacancy



UNIVERSITY  
OF  
**LOUISIANA**  
L a f a y e t t e™

**POSITION: Accelerator technician**

**EEO# RD 1-17**

## **RESPONSIBILITIES:**

The Louisiana Accelerator Center, University of Louisiana at Lafayette operates a 5SDH-2 1.7 MV tandem Pelletron® accelerator with associated beam-lines and end-stations for materials research. The accelerator is equipped with three negative ion sources: a duoplasmatron for hydrogen ions, a rf charge exchange ion source for he ions and a negative Cs sputter ion source for ions from solid materials. In addition it has a switching/analysis dipole magnet and associated vacuum systems. Currently there are three operational beam-lines and associated end stations (i) A general purpose broad beam analysis beam-line for Rutherford Backscattering Spectrometry (RBS), Particle Induced X-ray Emission (PIXE) and Nuclear Reaction Analysis (NRA). (ii) An ion implantation beam line for in-vacuum irradiation of large areas and external irradiations in atmosphere of small areas. (iii) A MeV ion microscope with Oxford quadrupole triplet lenses and scanning system. This has detector systems for PIXE and RBS. A forth beam-line and end-station for low-fluence MeV irradiation for simulating charged particle irradiation in space is under construction. Additional instruments are a scanning electron microscope, optical microscopes, sample preparation equipment and an on-site mechanical workshop.

The duties of the Accelerator Technician are operation of the 5SDH-2 1.7 MV tandem Pelletron® accelerator, maintenance of the Accelerator and associated equipment as well as general laboratory duties which include general maintenance, purchase of equipment and supplies as well as overall oversight and organization of the LAC facility.

**Desirable skills:** Documented experience with: Radiation safety, experience with maintenance of high power and high voltage (MV) electrical equipment, repair and commissioning electronic instrumentation and control systems, chemical safety, safe handling of reactive metals, handling of SF6 recycle systems, gas systems, cooling systems, repair and installation of UHV and CHV vacuum systems and vacuum pumps, cryogenics. MeV ion microbeam experience, Mechanical construction work using lathes, milling machine etc.

**Place of work:** Louisiana Accelerator Center, 320 Cajundome Blvd., Lafayette LA 70506. (Residence within 20 min travel is highly desirable.)

## **QUALIFICATIONS:**

A bachelor's degree in Electronic Engineering and/or a related field. At least 24 months experience as an accelerator technician.

## **UNIVERSITY AND COMMUNITY:**

### **(The following is to be included in each vacancy announcement)**

The mission of the University of Louisiana at Lafayette is to offer exceptional education informed by diverse world views striving to develop innovative leaders who advance knowledge. The Southern Association of Colleges and Schools Commission on Colleges accredits the University, which offers undergraduate and graduate degrees in the arts, sciences, and professional programs. The University is a public research university with high research activity, an enrollment of over 18,000 students and 800 faculty members. UL Lafayette is the largest of nine universities in the University of Louisiana System. The University offers degree programs in 55 undergraduate disciplines, 15 post-bachelor certificates, seven graduate certificates, the master's degree in 28 disciplines and the doctorate in 10 disciplines. Additional information about the University is available on the University's webpage at <http://louisiana.edu/>.

### **(The following is information that can be included in the announcements on an optional basis)**

The core values of the University include: equity, integrity, intellectual curiosity, creativity, tradition, transparency, respect, collaboration, pluralism, and sustainability.

UL Lafayette consists of nine degree-granting units: Arts, B.I. Moody III College of Business Administration, Education, Engineering, Graduate School, Liberal Arts, Nursing and Allied Health Professions, Ray P. Authement College of Sciences, and University College.

Located midway between New Orleans and Houston, Lafayette is the heart of Louisiana's Acadian-Creole region. The city of over 126,000 is part of the Lafayette-Acadiana area, which has a total population of 616,000 and is one of Louisiana's fastest-growing metropolitan areas. Lafayette serves as the base of Louisiana's offshore oil industry, as well as the financial, retail, and medical center for South-Central Louisiana.

**SALARY:** Commensurate with experience.

**ANTICIPATED STARTING DATE:** 1 August 2019

**APPLICATIONS:**

The application should include: (i) Resume, (ii) Covering letter (iii) Names and e-mail contact details of three reference persons (iv) A brief statement of competences related to the position, (v) Any other documents and copies of certificates the applicant wishes to be taken into consideration.

The documents should be submitted by e-mail to both: Prof. Harry J. Whitlow, Director of the Louisiana Accelerator Center e-mail: [hwx1673@louisiana.edu](mailto:hwx1673@louisiana.edu) and Taronsler Faye Cormier, Human Resources, e-mail: [faye.cormier@louisiana.edu](mailto:faye.cormier@louisiana.edu)

The University of Louisiana at Lafayette does not discriminate on the basis of race, color, national origin, age, religion, sex, sexual orientation, or disability in admission to, access to, treatment in, or employment in its programs and activities as required by Title VI and Title VII of the Civil Rights Act of 1964, Age Discrimination in Employment Act of 1967, Age Discrimination Act of 1975, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Executive Order 11246, Section 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974 and the 1990 Americans With Disabilities Act. - See more at: <http://personnel.louisiana.edu/employment-opportunities/policy-nondiscrimination>