



Lead, Radiofrequency and High Voltage

The Canadian Light Source is looking for a group leader (Lead) for our Radiofrequency and High Voltage team. Our Radiofrequency and High Voltage (RF and HV) team maintains, repairs, and operates our RF and HV systems.

Who we are:

The Canadian Light Source (CLS) is a 3rd generation light source and a national research facility located on the University of Saskatchewan. CLS produces very bright light that is used to explore the laws of nature from the microscopic to the macroscopic dimensions and helps bolstering innovation in many technical fields. Through its 22 beamlines, it serves national and international users working on everything from dinosaur skins to mine remediation and from cancer treatments to cutting-edge electronics.

Where we work and live:

Our facility is centrally located on the beautiful grounds of the [University of Saskatchewan](http://www.usask.ca) within walking distance of Saskatoon's riverbank trails and close to campus amenities such as fitness facilities, restaurants, museums, and galleries. [Saskatoon](http://www.saskatoon.ca) is a livable and growing city with plenty of green space and walking paths, a thriving arts community, and a lively music scene. The City, as well as the provincial and regional parks within driving distance, offer year-round options for outdoor activities and exploration.

What your responsibilities will include:

As the Lead of our RV and HV team, you will oversee responsibilities within the group and provide supervisor, coaching, and mentorship to the team members. This will include participating in the recruitment, performance management, and professional development of staff.

You will work together with the Accelerator Operation and Development (AOD) Manager and other Leads and departments to develop the objectives for the maintenance, operation, upgrade, and development of the accelerator complex. Applying your expertise in RF systems and/or Power converters and other types of power supplies, you will be central in proposing technical upgrades of components or systems and will provide remediation plans to address identified risk with specific systems and to ensure high availability of beam for the user program.

We have a number of upcoming projects that you can apply your knowledge and experience to including:

- 700 A Dipole power supply upgrade for the storage ring
- 300 kW Solid state amplifier upgrade for the superconducting cavity
- New LINAC with SLED and high power 40 MW klystrons and solid-state modulators

Through your work with our experienced team, we expect you will rapidly develop a thorough insight and expertise of the RF and/or HV systems and become a "go to" resource in leading the resolution of operational issues.

Some travel (visiting vendors, suppliers, and collaborators) is expected. As part of this travel the Lead will showcase the work of the RV/HV group to the international community and encourage collaboration with similar groups in Canada or internationally.

Occasional shift work for machine development, operation, and maintenance is expected.



What you would bring

This role is right for you if you enjoy collaborating with and providing leadership to other professionals and experts in this field.

Qualifications you will need to succeed in this position:

- A relevant undergraduate degree (e.g. Electrical Engineering)
- Minimum of five (5) years' practical relevant experience in the field of RF (high power such as radar or low power such as telecommunications,) or in high intensity/high voltage power supply (design, construction and/or operation-maintenance).
- Proven record of theoretical and conceptual knowledge in areas of RF systems or power supply/power converters

Any of the following qualifications are considered an asset:

- Eligible for professional membership in the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS)
- Experience in a lead or supervisory role in the field
- Project management experience

Compensation: Your starting salary will be based on your qualifications and experience. Our comprehensive benefits package includes four (4) weeks of vacation to start, health & dental benefits, life insurance, a pension plan, and a health spending account.

Should you be relocating to Saskatoon to take the job at CLS as part of your next career move, we also offer relocation assistance. Although housing prices in Saskatoon tend to be more reasonable as compared to other areas of Canada, we also provide a loan to support you with the purchase of a home.

To Apply: Please submit your resume and cover letter online at www.lightsource.ca/careers.

We will start reviewing applications at the beginning of April and will continue reviewing applications until the position is filled. While all applicants are thanked for their interest, only short-listed candidates will be contacted.

We look forward to hearing from you.