

Experimental Particle Physics
Postdoctoral Fellow – Belle II Experiment with University of Victoria Particle Physics Group

Field of Interest: hep-ex

Experiment: [KEK-BF-BELLE-II](#)

Deadline: 2024-10-15

Region: North America

Job description:

The University of Victoria Particle Physics Group invites applications for a Postdoctoral Fellow position to work on the Belle II/SuperKEKB e^+e^- high luminosity flavour factory project. The position is for two years with the possibility of extension for a third year. The appointment will be with the University of Victoria Particle Physics Group and the successful applicant will work in close collaboration with the entire Belle II Canada team. The primary location for this position, to be negotiated with the successful candidate, will be either in Victoria, Canada, or in Tsukuba, Japan at the main site of Japan's High Energy Accelerator Research Organization (KEK) where Belle II and SuperKEKB operate.

The Victoria group has interests in a variety of particle physics topics including: searches for new physics in leptonic and semileptonic B decays such as $B \rightarrow D^{(*)} \tau \nu$ and $B \rightarrow K^{(*)} \nu \bar{\nu}$; improving methods used for B tagging and improving standard model decay mode measurements; dark sector searches; physics associated with the production and decay of tau leptons; and physics enabled by initial state radiation. The team contributes to the Belle II electromagnetic calorimeter (ECL) and the monitoring of thermal neutrons from beam-backgrounds. The group also has an interest in accelerator physics developments associated with attaining high luminosity and explorations of a potential polarized beam upgrade to SuperKEKB. In addition, the team contributes to the development of cloud computing software for Belle II and manages a Belle II Raw Data and Analysis Centre.

The successful candidate will take a leading role in Belle II operations in one of the areas of interest to the group, as well as Belle II particle physics analyses. Applicants are expected to have a PhD in experimental particle physics received within the five years prior to the time of the appointment. Experience in particle physics analyses, object oriented programming and computing grids would be an asset. The starting date and initial location will be negotiated with the successful candidate.

Review of applications will begin 15 October 2024 and will continue until the position is filled. All qualified candidates are encouraged to apply. The University of Victoria is committed to upholding the values of equity, diversity, and inclusion in our living, learning and work environments. In pursuit of our values, we seek members who will work respectfully and constructively with differences and across levels of power. We actively encourage applications from members of [groups experiencing barriers to equity](#). Read our full equity statement here: www.uvic.ca/equitystatement

Interested candidates should submit by 15 October 2024 a *curriculum vita*, a brief description of research interests and arrange to have at least three letters of recommendation sent to:

Professor J. Michael Roney
c/o Ms. Tammy McLash
Dept. of Physics and Astronomy,
University of Victoria
PO Box 1700 STN CSC
Victoria, BC, CANADA V8W 2Y2
email: vispa@uvic.ca

The preferred method of correspondence is via email to: vispa@uvic.ca Please clearly indicate that you are applying to the Belle II PDF position in any correspondence.

Contact: Tammy McLash

Email: vispa@uvic.ca

More Information: <http://www.uvic.ca/science/physics/vispa/research/projects/bphysics/index.php>

Letters of Reference should be sent directly to: vispa@uvic.ca