

Postdoctoral Position – Integrated Silicon Photonics

The Department of Electronics (ELEC) at Carleton University, Ottawa, Canada, together with the National Research Council (NRC) of Canada, is accepting applications for a Post-Doctoral Research Fellow position dedicated to device and system design and implementation of integrated silicon photonics devices. The ideal candidate should have experience in photonic integrated circuit design (phased array design, electronics/FPGA and optical circuit design) and testing. Hands-on experience in fabrication is considered an asset, and experience with LiDAR and phased array systems or similar applications is desirable.

This position is supported by an external grant and is for a period of 2 years.

Candidates must have completed a Ph.D. degree in Engineering Physics, Electrical Engineering, Physics or in a closely related field. The candidate should ideally have direct research experience and skills in the following areas:

- Device physics, optical waveguide theory and design
- Solid background in optical setup design and optical characterization techniques

The successful applicant will collaborate closely and conduct research with personnel at all levels within the Carleton and NRC groups. Additionally, the Fellow is expected to assist with conference and journal publications and reports. Excellent written and oral communication skills are essential to the position. Applications should include a CV, publication history and a cover letter clearly outlining how their past research and experience provide the necessary qualifications. Additionally, contact information for 3 references should be available upon request.

Carleton University is committed to EDI and fostering diversity within its community as a source of excellence, cultural enrichment, and social strength. We therefore welcome applications from underrepresented groups including, but not limited to: women; visible minorities; First Nations, Inuit and Métis peoples; persons with disabilities; and persons of any sexual orientation, gender identity and/or expression. Carleton understands that career paths vary. Legitimate career interruptions will in no way prejudice the assessment process and their impact will be carefully considered.

Please direct applications to Professor Winnie Ye (Winnie.Ye@carleton.ca), Professor Pavel Cheben (pavel.cheben@nrc-cnrc.gc.ca) and Professor Jens Schmid (Jens.Schmid@nrc-cnrc.gc.ca).