Postdoctoral Research Position at UBC

There is an opening for a postdoctoral fellow position in Optical fiber communication (OFC) systems in the Department of Electrical Computer Engineering at the University of British Columbia (UBC) under the supervision of Prof. Lutz Lampe.

We are looking for a researcher to develop innovative physical-layer concepts for coherent OFC systems for long-haul optical fiber links. The objective of the research is to improve rate, reach, and adaptivity of next-generation OFC systems. The areas of research include, but are not limited to, signal shaping, nonlinearity compensation, super-channel transmission, equalization, and iterative detection. A focus of the research will be the meaningful use of machine learning concepts and their integration in practical OFC transmitter and receiver signal processing chains.

The research will be conducted in collaboration with an industry partner under the umbrella of an NSERC-industry co-sponsored research program. The postdoctoral fellow will be part of a larger research group and work closely with both academic and industry researchers.

The successful candidate is expected to have the following qualifications at the time of the appointment:

- A PhD (granted in the last 5 years) in electrical or computer engineering, or closely related fields,
- Extensive research experience in optical fiber communication, physical layer signal processing, machine learning,
- An excellent research record with significant publications in top journals in the field,
- Evidence of independent research and strong communication skills.

The initial appointment is for one year, with an opportunity for renewal for another year. The salary will be CAD$50,000 per year plus mandatory employment related benefits. The position is available immediately.

To apply, please provide the following: a one-page letter of intent which includes a statement of your research interest, a detailed curriculum vitae, a PDF copy or a link to one of your recent and related peer-reviewed publications, and the names of three references.

Complete application packages should be sent to Prof. Lutz Lampe at Lampe@ece.ubc.ca.