

UNIVERSITY OF OTTAWA - CENTRE FOR RESEARCH IN PHOTONICS POSTDOCTORAL POSITION IN NANOPHOTONICS DESIGN

The research groups of Professors Berini and Ramunno at the University of Ottawa are currently seeking an exceptional candidate for a Postdoctoral Fellowship position in active and nonlinear plasmonic metasurface design and development. The research has significant potential for applications in beam steering, optical switching in optical fiber networks, and LIDAR applications.

Working with a diverse team of top researchers in nanophotonic device fabrication and characterization, and computational nanophotonics, and in collaboration with leading industrial partners, the successful candidate will design and simulate active and nonlinear plasmonic metasurfaces and related device concepts using high performance computers. They will validate models, assist in the interpretations of experimental results, and guide experimental efforts. In addition to working collaboratively with a multi-disciplinary team, the successful candidate will also mentor and oversee the activities of graduate students, publish research findings, and present research findings at international conferences.

Professor Berini's and Ramunno's groups are part of the Centre for Research in Photonics at the University of Ottawa (CRPuO) and conduct exciting research into the growing field of surface plasmon photonics and metasurfaces in close collaboration with industry partners and with such world renowned groups as the Max Planck-uOttawa Centre for Extreme and Quantum Photonics, Canada's National Research Council (NRC), the uOttawa-NRC Joint Centre for Extreme Photonics (JCEP), and the Canadian Photonics Fabrication Centre. The groups also benefit from access to Canada's largest, state-of-the-art, supercomputers.

QUALIFICATIONS

The successful candidate will have a PhD in in Physics, Electrical Engineering, or a related field combined with deep knowledge of nanophotonics and/or plasmonic devices, and their potential applications. Experience with computational photonics and code development is essential. The successful candidate will be fluent in both spoken and written English, demonstrate strong analytical and creative problem solving skills, and have a desire to work collaboratively while demonstrating initiative in pursuing challenging avenues of research. Experience with high performance computing machines would be an asset.

The position offers competitive compensation as well as the opportunity to participate in conferences and present research findings to the scientific community.

To apply for this exciting opportunity, please send your CV, covering letter and references to crpadmin@uottawa.ca.

ABOUT THE UNIVERSITY OF OTTAWA

Recognized as a world leader in photonics, the University of Ottawa offers a highly creative multidisciplinary environment for research and innovation, and is ranked amongst the top 10 research institutions in Canada. It was also recently ranked the "top tech center in Canada" in terms of current activity and future prospects.

The University of Ottawa is committed to fostering diversity as a source of excellence and strength. We welcome applications from those who would contribute further to diversity, including (but not limited to): women, First Nations, Inuit and Métis peoples, persons with disabilities, members of visible minorities and persons of any sexual orientation, gender identity and/or expression.