The Centre for Research in Photonics

The Centre for Research in Photonics is at the heart of quantum research in Canada. It is a member of the Canadian Network of Centres of Excellence and a key partner in the Advanced Research Complex, a state-of-the-art $70-million building.

Who we are

Completed in 2014, the University of Ottawa’s Advanced Research Complex is the new home of the Centre for Research in Photonics and promises to transform our daily lives. Projects in nanotechnology, solar energy, biophotonics, and more could lead to designing better drugs and treatments.

What is photonics? Why is it important?

Photonics is the science of light. The technology for generating, manipulating, and detecting light helps the world to perform in a safer, smarter, and more efficient way, from our electronics and digital revolution to health care and future transportation systems. In Canada, the photonics industry generates 30,000 jobs and employs about 200,000 people.

The power of light

Cutting-edge research — from fundamentals to applications — is at the heart of the Centre for Research in Photonics and promises to transform our daily lives. Projects in nanotechnology, solar energy, biophotonics, and more could lead to designing better drugs and treatments.

The Advanced Research Complex offers world-class facilities for CRPuO researchers, including:

- 16 dedicated photonics laboratories
- A world-class team
- An incomparable research hub

The CRPuO has an extensive international network of partnerships and collaborations:

- Universities
- Government
- Industry

Our partners

The CRPuO is an active international network of people and collaborations. CRPuO professors represent less than 1% of the University’s faculty, but account for 15% of all patents granted.

The road to innovation

- Number of invention disclosures between 2007 and 2013: 13
- Number of patents filed between 2007 and 2013: 31
- Number of patents granted between 2007 and 2013: 13
- Number of patents per grantee between 2007 and 2013: 5

The power of light

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