



2740 Einstein | Quebec | G1P 4S4

Joint Postdoctoral Position / QUEBEC-ALBERTA

National Optics Institute (INO)

www.ino.ca

and

Department of Mechanical Engineering of the University of Alberta

www.mece.engineering.ualberta.ca

Description and project objectives:

Joining the project team of scientists from INO and the Department of Mechanical Engineering of the University of Alberta, you will be working on a collaborative research project for “*the development of new technologies in particle sizing*”. More specifically, you will have to:

- (1) Further develop and improve a new technology for In-Situ Individual Particle Sizing (ISIPS – Patent Application PCT/CA2015/050995);
- (2) Upgrade and improve an existing test setup for inter-comparison of ISIPS with approved particle sizing instruments;
- (3) Validate performances and establish limitations of ISIPS for different applications.

You will be working half of your time at the INO facility in Quebec City and the other half at the University of Alberta in Edmonton. You are expected to have frequent communications and travels between Quebec City and Edmonton.

The project is conditional to the funding from a Mitacs Accelerate postdoctoral project scholarship (<https://www.mitacs.ca/en/programs/accelerate>). The Mitacs application will be prepared jointly between you, University of Alberta and INO. Moreover, obtaining a Canadian reliability status is required prior to the start of the project at INO.

Requirements, Knowledge and Abilities:

- Ph.D. degree;
- Expertise in physics or engineering, or analytical instrumentation, particularly particle sizing and particle dispersion technologies (Maximum 5 years after PhD; condition from Mitacs);

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- Hands-on capacity for optical instrument development and algorithms, and basic understanding of light scattering theory;
- Creativity and demonstrated abilities to complete engineering processes for lab and industrial instruments within rigid deadlines and ambitious requirements;
- Strong ability to work effectively in a dynamic and fast-paced environment as an independent individual and as a good team member;
- Strong ability to bring research findings to publications;
- French language (spoken and written) an asset;
- Canadian residency or citizenship or a valid working permit is required;

Candidates are advised to send their application (including resume, academic qualifications, research skills, work experience, publications/presentations) as well as three relevant referees (full names and contact information such as email and phone number) to the INO HR manager, Madam Karine Romain, at karine.romain@ino.ca by **February 15, 2017**.

**Please note only selected candidates will be contacted.*