

We are seeking a **Postdoctoral Fellow** to work on

Scalable and Quantitative Affinity-based Proteomics on Beads

Commercialization | Multiplex immunoassays | DNA nanotechnology | Biochemistry | Proteins

Duration: 1 year with possibility of extension

Start Date: Immediately or at the earliest convenience

The Juncker Lab at McGill University in Montreal, Canada, is seeking an outstanding Postdoctoral Fellow to work on an exciting NSERC-funded **nanotechnology-based proteomics platform with a strong potential for commercialization**. Applicants with tech transfer or industrial experience are strongly encouraged to apply. The platform consists of a novel immunoassay format capable of multiplexed and sensitive protein detection that was recently developed. The Fellow would join a growing team of researchers working on the project, and work closely with our spin-off, *nplexbiosciences*.

An ideal candidate would have a PhD in the physical or life sciences, expertise in the main project research areas, and experience with **antibody conjugation, protein purification, or assay development**. The candidate will be expected to develop and implement appropriate methods to benchmark assay performance, improve the limit of detection, and comprehensively optimize the platform for clinical applications. The Fellow is expected to perform independent analysis of datasets generated over the course of the project, spearhead manuscript-writing efforts (or support others as appropriate), and contribute to writing grant applications. Qualified candidates should be self-driven leaders and highly motivated researchers with an established track record.

Project Deliverables and Primary Activities in Year 1:

- Antibody conjugation, purification, and QC.
- Immunoassay development, benchmarking, and clinical sample validation.
- Design and validation of improvements and new assay formats (on-going throughout the project).
- Development of Standard Operating Procedures (SOPs) and management of junior lab personnel.
- Interface assay platform with automation equipment, peripheral components and custom software.

Key Assets for Candidates:

- Expertise in proteomics and immunoassays, with a PhD in a relevant field of study.
- Previous experience with biological assays: ELISA, microarrays, and flow cytometry.
- Strong ability to design and conduct experiments, as well as perform in a collaborative lab setting.
- Works well in a **fast-paced** and team-focused environment.
- Strong interest or previous experience in commercialization or technology transfer.

Please send your application package (cover letter, CV, contact info for 3 references) by email with the subject line “Immunoassay Postdoc” to:

Dr. David Juncker
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McGill University
McGill University and Genome Quebec Innovation Centre
Montreal, Quebec, Canada

Email: job.djgroup@gmail.com

Please visit our webpage for additional information

juncker.lab.mcgill.ca

<https://www.mcgill.ca/about/points-pride>