



Principal Investigator: Prof. Zachary Hudson

Keywords: Optoelectronics, organic chemistry, polymer chemistry, luminescent materials, fluorescence spectroscopy, density functional theory, quantum computing

Job Description: Two postdoctoral positions are immediately available in the Hudson Lab at the University of British Columbia in Vancouver, BC. The candidates will join a multidisciplinary research group focused on developing advanced materials for optoelectronics. Current research areas in the group include i) new materials for organic electronics and solid-state lighting; ii) luminescent nanoprobes for bioanalysis; iii) organo-photocatalysis, and iv) computational approaches to materials discovery.

Projects in these areas are highly flexible, and the successful candidates will be encouraged to explore their own research interests in addition to those outlined above. The candidates will also be involved in mentoring undergraduate and graduate students, as well as assisting with the day-to-day operation of the laboratory. External funding is not required, though candidates holding external funding are highly encouraged to apply.

Position 1 is open to candidates holding a Ph.D. in chemistry, materials science or related field with expertise in any branch of synthetic chemistry, including organic, inorganic or polymer synthesis.

Position 2 is open to candidates holding a Ph.D. in chemistry, materials science or related field with expertise in computational chemistry, including density functional theory. This position is also suitable for candidates with a multidisciplinary background in materials synthesis and characterization, provided that they have strong foundations in computational chemistry.

Additional desirable skills include any of the following:

- Expertise with optoelectronic materials characterization (e.g. fluorescence spectroscopy, electrochemistry, microscopy, photonics);
- Experience with nanomaterials characterization (TEM, SEM, AFM);
- Experience with polymer science, including the use of gel permeation chromatography systems.

Candidates must be highly motivated and self-driven, capable of independently designing and performing experiments. Excellent verbal and written communication skills, the ability to work well as part of a team, and a strong track record of publications as lead author are also required.

Salary: \$55,000 CAD/year + benefits.

Start Date: Flexible

Interested candidates should e-mail their complete application in PDF format to zhudson@chem.ubc.ca, including:

- A cover letter describing your background, experience, motivation for seeking the position and contact information for three references;
- A CV including complete publication list;
- ‘PDF in Materials Chemistry’ in the subject line.

The evaluation of candidates will begin immediately and continue until filled. Candidates selected for further evaluation will be contacted for an interview and brief research proposal.

The normal hours of work are 40 hours per week for a full-time postdoctoral fellow, recognizing that the needs of the employee’s research and training may require flexibility in both duties and hours of work.

For more information, please visit:

Hudson Group: hudsonlab.ca

UBC Department of Chemistry: www.chem.ubc.ca

Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.