

Postdoctoral Fellowship in Materials Chemistry



Department of Chemistry
The University of British Columbia



Principal Investigator: Prof. Zachary Hudson

Keywords: Optoelectronics, organic chemistry, polymer chemistry, luminescent materials, fluorescence spectroscopy, nanomaterials

Job Description: A postdoctoral position is immediately available in the Hudson Lab at the University of British Columbia in Vancouver, BC. The candidate 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 nanoprobe for bioanalysis; iii) the synthesis of nanomaterials from semiconducting polymers, and iv) quantum computing for optoelectronic materials discovery.

Projects in these areas are highly flexible, and the successful candidate will be encouraged to explore his/her own research interests in addition to those outlined above. The candidate 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.

Requirements:

- A Ph.D. in chemistry, materials science or related field;
- Expertise in any branch of synthetic chemistry, including organic, inorganic or polymer synthesis;

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);
- Expertise with computational chemistry, including density functional theory.

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: \$50,000 CAD/year + benefits.

Start Date: Flexible, between Aug. 1, 2021 – Jan. 1, 2022.

Interested candidates should e-mail their complete application in PDF format by July 1, 2021 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.

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.

For more information, please visit:

Hudson Group: hudsonlab.ca

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