

POSTDOCTORAL POSITION IN FOULING-RESISTANT SURFACES FOR HEAVY OIL TRANSPORT EQUIPMENT

Labs of Profs Xuehua Zhang, Qi Liu

We invite applications for one postdoctoral fellow position to work on a project in the Department of Chemical & Materials Engineering at the University of Alberta in Edmonton, Alberta, Canada. The position is 1 year with the possibility for renewal.

Job description

1. To conduct high quality research under the guidance of senior researchers.
2. To develop anti-fouling metal surfaces with low adhesion of heavy oils
3. To functionalize steel surfaces and test the performance in contact with model and real samples
4. To test the effect of antifouling layer in cleaning processes
5. To effectively communicate the findings with our industrial sponsor
6. To write literature review and progress reports and to prepare manuscripts for publication
7. To keep abreast of international research trends and outcomes in relevant areas, and make contributions to the applications of research findings
8. To interact effectively with postgraduate students in the research group and to comply with all relevant laboratory safety codes and practices

Qualifications

1. PhD or equivalent research experience in nanomaterials, polymer synthesis or colloid and surfaces sciences.
2. Highly developed skills in materials synthesis, surface property characterization and analysis.
3. Demonstrated ability to undertake independent research evidenced by publications
4. Demonstrated initiative in research and problem solving and interest in interdisciplinary research and technology transfer.
5. Demonstrated ability to work effectively as a member of a research team.
6. Excellent interpersonal and communications skills appropriate for interacting with students, staff and industry, together with a strong commitment to teamwork.
7. Self-starter and motivator with the mind-set of focusing on deliverables and getting the job done in time.

To Apply:

Forward your cover letter and CV together with contact information for three references to:

Xuehua Zhang
Xuehua.zhang@ualberta.ca

Closing date:

Will be open until the position is filled.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

The University of Alberta offers appointments on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities and Aboriginal persons.