INSTITUTE FOR
OIL SANDS INNOVATION
AT THE UNIVERSITY OF ALBERTA

Breakthrough Energy Research | Advanced Environmental Technologies

Imperial ALBERTA INNOVATES FACULTY OF ENGINEERING

LETTERS OF INTENT FOR OIL SANDS RESEARCH

DEADLINE: ONGOING

Format

Each Letter of Intent should be sent by email, as either an MS-Word document or PDF file using the attached template. The letters must use an 11-point or larger font size and be no more than one page in length plus half a page detailing prior experience working in the proposed research theme areas. Faculty members are encouraged to submit more than one Letter of Intent, if they wish to propose distinctly different research ideas.

Scope of Research

The mandate for the Institute for Oil Sands Innovation (IOSI) is to find efficient, economically viable and environmentally responsible methods to develop Canada's oil sands resources. Research at the University of Alberta, partner universities and government research laboratories, in collaboration with IOSI's partners, will seek innovative new methods to produce bitumen from shallow oil sands deposits (<100 m) and process it to yield value-added products. These new technologies must have the potential to offer substantial benefits in terms of improved energy efficiency, reduced cost, and reduced environmental impact, relative to commercially available technologies.

Purpose of the Letter of Intent

Letters of Intent will be used to identify research ideas of interest to IOSI. We then work with the researcher to develop a full proposal to be considered for funding. We may also help to identify expertise to enhance projects through collaboration. The timelines for applications and proposals are as follows:

Letters of Intent	Collected year round
Request for full proposals	Ongoing
Full Proposals Due	Ongoing
Start of new projects	Variable

Research Theme Area

This call for letters-of-intent is particularly focused on the theme area of Product Cleaning and Partial Upgrading. Research topics include bitumen froth treatment, cleaning of bitumen generated from non-aqueous extraction, and partial upgrading of bitumen.

Letters of Intent [Template] should answer the following questions:

Proposed Research or Process Concept

What research do you propose to undertake?

Expected Advantages Relative to Current Commercially Available Technologies

How would the proposed research lead to a substantial benefit for oil sands development, relative to current technology?

Funding, Resources, Equipment Required

How much time, resources, and new equipment would be required to do the research and take the technology, if applicable, to the stage where it is ready for pilot testing?

Note that preference is given to projects that include training of students and postdoctoral fellows, and that major equipment acquisition is discouraged as ideally the proponents should already have the facilities/expertise for the proposed research. Access to the IOSI labs and facilities as well as IOSI technical support is also possible and encouraged. Please contact Qi Liu at qliu@ualberta.ca or 780-492-8628 should you have any questions.

Prior research experience in the research theme

List of projects, publications, presentations undertaken in the research theme area.

LETTER OF INTENT

Name:
Department and University:
Title of Project:

Proposed Research or Process Concept:

Expected Advantages Relative to Current Commercially Available Technologies:

Funding, Resources, Equipment Required
Research staff required (students, post-doctoral fellows etc.):
New equipment required:
Approximate time required:
Total funds required:
Comments:

Send completed form to Jagvir Singh at jagvir@ualberta.ca

Prior research experience in the mentioned theme of research