



**University
of Manitoba**

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**RE: MSc Project funded by Institute for
Oil Sands Innovation (IOSI)**

U of M Researcher: Paul Durkin (Assistant
Professor)

INSTITUTE FOR
OIL SANDS INNOVATION
AT THE UNIVERSITY OF ALBERTA



Project Title:

Utilizing airborne electromagnetic survey data to reduce uncertainty in geological models

Project Description

The PaleoSed+ Research Group in the Department of Earth Sciences at the University of Manitoba is seeking candidates for a fully-funded MSc project to study Early Cretaceous fluvial systems using geophysical and sedimentological methods. The successful candidate should have a 4-year Bachelor's of Science or Arts degree in Geological or Earth Sciences (or equivalent) with a solid background in sedimentology and stratigraphy. Experience working with geophysical data and completion of an undergraduate thesis are assets. The successful candidate should have a GPA >3.0 out of 4.5 (University of Manitoba scale). The position is fully funded at \$24,000/year for two years.

Duties and Responsibilities

Development of a research proposal, conduct primary and secondary data collection, laboratory analysis, data analysis, 3D mapping and modelling, thesis writing, course work, and conference participation.

Skills and Benefits

Students will be trained in clastic sedimentology and stratigraphy, integrated with novel geological modelling approaches. Students will be given an opportunity to participate in an 8-month paid internship with Imperial Oil during their studies. Students will gain experience in project management, report and manuscript preparation, oral presentations, and 3D geological modelling. Graduates from this program are trained for careers in the petroleum industry, government, or further academic studies.

To apply, please send a CV, transcripts, and a letter outlining your interest in these opportunities to Dr. Paul Durkin at Paul.Durkin@umanitoba.ca. Applications will be reviewed upon receipt. Position to begin as early as May 2024.

For more information:

<https://umanitoba.ca/environment-earth-resources/earth-sciences/graduate-programs-earth-sciences>