GRADUATE STUDENT OPPORTUNITY

Community Appropriate Sustainable Energy Security Partnership

CASES

UNIVERSITY OF SASKATCHEWAN

Based at the University of Saskatchewan, Canada, CASES is an international research initiative bringing together public and private enterprise, northern and Indigenous communities, utilities, and universities, from Canada, Alaska, Sweden, and Norway. The goal of the CASES Partnership is to reimagine energy security in northern and Indigenous communities by co- creating and brokering the knowledge, understanding, and capacity to design, implement and manage renewable energy systems that support and enhance social and economic values.

We are currently recruiting to fill two master's level (**MSc or MES**) positions at the University of Saskatchewan starting **May 2022.** Both positions are part of a larger project focused on informing the planning and development of Indigenous-owned community-scale bioenergy and biofuel facilities.

POSITION # 1

The project will focus on spatial modeling and mapping. You will work with forest resource inventory data, in combination with other qualitative and quantitative information, to understand the spatial distribution of harvestable resources, facility siting options, and biomass supply-cost curves. You will develop maps and other products to inform community members, stakeholders, and decision-makers. The project will require, and enhance, skills at the intersection of GIS and resource management.

POSITION # 2

The project will focus on applied economic geography or forestry management/engineering to tackle such problems as landscape-scale modeling of resource supply from various silvicultural practices across different fiber market frameworks **and/or** detailed transportation modeling to refine estimates of biomass supply-cost curves. The project will enhance skills at the intersection of economic geography forestry management/ engineering. Experience with GIS is an asset.

PROGRAM

This is a two-year thesis-based Master's degree program. Applicants will take a minimum of four, three-credit-unit courses followed by a research thesis.

A minimum 80% GPA and an undergraduate degree in a relevant field is required. Both positions require strong technical skills coupled with strong oral and written communication skills.

All qualified applicants are encouraged to apply. Priority will be given to Indigenous applicants.

TEAM-BASED ENVIRONMENT

Students will work in a multidisciplinary team-based environment, networking with other students, researchers, communities, and project partners.

FUNDING

Positions are fully funded for two years, including scholarship support and resources to cover research expenses and conference travel.

HOW TO APPLY

Submit a CV, 1-pg expression of interest, and scanned copies of your academic transcripts to the Project Manager jackie.martin@usask.ca.

Short-listed candidate will be contacted for an interview by videoconference.

For information about the University of Saskatchewan: https://www.usask.ca/

For information about CASES: https://renewableenergy.usask.ca/Projects/CASES.php