

SUMMER SCHOOL ***ON FORECASTING AND*** ***MATHEMATICAL MODELING*** ***FOR RENEWABLE ENERGY***

*A PIMS CRG on Forecasting
and Mathematical Modeling
for Renewable Energy*

MAY 29 - JUNE 9, 2023

**UNIVERSITY OF CALGARY
MAIN CAMPUS**

Wind and solar power are the primary sources of renewable energy, and both driven by the weather, hence stochastic and variable. To solve the grand challenges related to their optimal deployment requires an interdisciplinary approach combining expertise in mathematics, statistics, atmospheric sciences, fluid dynamics and power system engineering. In this summer school, the students will receive training in key methodologies for forecasting and mathematical modeling of renewables. We offer the following mini courses:

- Spatio-temporal processes and forecasting
- Atmosphere and fluid dynamics, part 1
- Atmosphere and fluid dynamics, part 2
- Optimization for renewables

Delivery method: In-person/ Virtual

We will be hosting the students at U Calgary to enable in person peer to peer interaction to form a friendly and energetic atmosphere. There will be field trips to a wind or solar farm and social events such as hikes and picnics. Courses are designed and delivered by a team of instructors. All courses will have lecture and exercise components. Some lectures will be delivered online; however, there will be an instructor on site for each course to assist students during the exercise sessions which will take place in person. Exercise components will include group projects and group presentations.

Financial support:

All admitted students will be provided financial support up to **1000 CAD** to cover travel and accommodation expenses to attend the summer school.

Lectures open to public and available online | Please register online | Students in graduate programs are eligible to apply |
Apply by April 10 at 5PM MT
https://survey.ucalgary.ca/jfe/form/SV_29VLhESjTE6NZ40

