

Call for applications - Application deadline January 15

Ph. D in statistics/or math, Mathematics and Statistics, University of Calgary

Fellowship for Ph.D. in Spatio-temporal processes and applications to wind and solar energy

Spatio-temporal processes are powerful tools to model systems that evolve stochastically in time and space. Some examples of spatiotemporal processes are: Second order processes, marked point processes, hierarchical Bayesian models, measure valued processes and stochastic partial differential equations. We currently have a vigorous research program on the applications of spatio-temporal processes to wind and solar energy in collaboration with various experts from Schulich School of Engineering.

The candidate will be working under the supervision of Dr. Deniz Sezer (Associate Professor, Mathematics and Statistics, Faculty of Science) and co-supervised by one or more of the following faculty members:

Dr. Robert Martinuzzi, Professor, Department of Mechanical Engineering, Schulich School of Engineering, Fellow of the ASME, Pratt & Whitney Canada Research Fellow, ,

Dr. David Wood, Professor, Department of Mechanical Engineering, Schulich School of Engineering, Schulich Chair in Renewable Energy, Schulich School of Engineering,

Dr. Hamidreza (Hamid) Zareipour, Professor, Department of Electrical and Computer Engineering, Schulich School of Engineering, P.Eng, SMIEEE.

Funding details:

Mathematics and Statistics guarantees a baseline funding of 24 K in the form of teaching assistance appointments to all thesis based students accepted to any of our graduate programs. With the fellowship, the candidate receives a guaranteed funding of 27 K , a release of half of the teaching duties for the fall and winter semesters and a full release of teaching duties in the spring and summer semesters for two first two years of the Ph.D. program. Contingent on the available funds and satisfactory performance, the fellowship will be extended to the third and fourth years. Also, in the third and fourth years, the summer portion of the fellowship can be replaced with an industrial internship, if such an opportunity is available. The internship opportunities cannot be guaranteed at the initiation of the Ph.D; however, they are expected to arise due to the rich industrial collaborative network of the participating faculty members.

Who can apply:

1. Candidates who will have received a Masters degrees in engineering, mathematics, or statistics by August 2018.
2. Candidates who are currently enrolled in a masters program in the department of Mathematics and Statistics at the University of Calgary. These applicants, if accepted will be eligible to transfer to Ph.D.
3. Candidates who do not have a masters degree and are not currently enrolled in a masters program can still apply. These applicants, if accepted, will initially enroll in a thesis based

masters program, and will be evaluated for transfer to the Ph.D program at the end of their first year. Fellowship is activated once the transfer is approved by the School of Graduate Studies.

How to apply:

Interested applicants should apply directly to the Math &Stat Graduate Program and indicate their wish to be considered for the fellowship in Spatio-temporal processes and applications to wind and solar energy in the Comments section of their application.