Postdoctoral Associate Position Opportunity

Department: Civil & Environmental Engineering
Supervisor: Reza Najafi

Description of Research and Position:
Prof. Najafi at the Department of Civil & Environmental Engineering, Faculty of Engineering invites applications for an energetic and dynamic postdoctoral associate in the area of Compound Flooding. The appointment is expected to be effective September 1, 2021 or as soon as possible thereafter. The research work will characterize and predict the compounding effects of multiple flood hazards in urban environments that will lead to more resilient cities and communities.

Accountabilities of the Role:
The successful applicant will analyze the drivers of flooding and develop an integrated framework to simulate and predict the simultaneous or cascading effects of multiple hazards. He/she will develop innovative multivariate statistical techniques to quantify the interdependencies between multiple drivers, their joint variabilities and the corresponding uncertainties. A particular opportunity will be to use large ensembles of climate model simulated data with a range of spatial resolutions to assess the nonstationary behaviour of extremes.

Educational Requirements necessary for the Role:
PhD in hydrology, civil engineering, statistics, or a closely related discipline. Knowledge of multivariate statistics and extreme value theory. Expertise in analysis and use of global and regional climate model simulations. Experience in process-based hydrologic and hydraulic modelling. A strong publication record in peer-reviewed journals. Significant experience with Python and/or R programming languages.

Number of Opportunities: 1
Proposed Start Date: 09/01/2021
Length of Appointment: One year (extendable to two years)

Please note that the length of appointment may change.

How to Apply:
Interested candidates should contact Prof. Reza Najafi at mnajafi7@uwo.ca (subject line “ATTN: Postdoctoral Application”) and include a CV, cover letter, and contacts for three references.

Posting Expires: August 1, 2021
Note: Postings must be publicly available for a minimum of 10 days.