PARVEEN KUMAR

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28/03/19

Department of Geography and Environment,

Mount Allison University,

Sackville, New Brunswick, Canada.

Dear Dr. David Lieske:

I am greatly interested in the McCain Postdoctoral Fellow position at the Department of Geography and Environment, Mount Allison University, as advertised on your websites. I am confident that I possess the qualities and skills you are seeking for this position.

My key strength is action based transdisciplinary research that will allow me to succeed in this position include, but are not limited to, the following:

- Degrees in environmental science (specialization in climate change, vulnerability assessment, and land use change), geo-information science and earth observation, and physical planning
- Extensive research experience, from data collection through publishing
- Published scientific manuscripts in peer-reviewed journals
- High interest in the sustainability, climate change, vulnerability and risk assessment, energy policies, GHG emissions, local and regional development, urban studies, environmental economics, SDGs, governance, land use change, ecosystem services, socio-ecological system, de-carbonization, health, policy analysis, decision support systems, resilient livelihoods, big data, GIS/RS, and cities
- Extensive experience in conducting spatial modelling, multi-criteria analysis, vulnerability assessment, land use analysis, ecosystem modelling, policy analysis, trade-off analysis, ex-post and ex-ante analysis, GHG emission modelling, econometrics, scenario development, meta-analysis, agent-based modelling, and stakeholder analysis
- Proficiency in analysis and modelling tools like InVest, IDRISI, NetLogo, ERDAS, ArcGIS, and LEAP
- Experience in the quantitative analysis of big data with the help of Python, R, JMP, SPSS
- Teaching experience in scenario development, spatial multi-criteria analysis, and GIS lab work
- Experience in advisory, policy analysis, strategy formulation, decision making, stakeholder management, and knowledge transfer.
- Excellent written and oral communication skills

I was engaged as a post-doctoral researcher within the Environmental Research Institute of the University College Cork (UCC), Ireland and recently finished my contract. As a post-doctoral researcher, my primary responsibility involves conducting research that explore technology opportunities for low carbon economy

in Ireland, developing GHG emission accounting tool for Ireland, policy analysis, and analyzing impacts of climate change policies on GHG emissions.

Prior to my current work, I completed my Ph.D. in Environmental Engineering from University of Trento, Italy in 2015. Pursuing my interest in sustainability, climate change policy, risk assessment, and land use change, my Ph.D. research work resulted on developing an evaluation framework to understand the integration of climate change into policies at local and regional spatial scales and a vulnerability assessment framework for local urban scale which resulted in several publications and a thesis titled "Spatial planning to integrate climate change adaptation at local level" with a case studies in India (e.g. 40 cities in India, special focus on Bangalore City and Darjeeling District of Eastern Himalaya Region of India). I received the Erasmus Mundus scholarship in 2009 for my M.Sc. study in Application Geo-Information Science and Earth Observation (Urban Planning and Management) at the Faculty of Geo-Information Science and Earth Observation (ITC), University of Twente, Netherlands. I took up spatial planning for my undergraduate degree from one of the only specialized universities in planning in India, School of Planning and Architecture, New Delhi, India.

Lastly, my experiences during my Ph.D. and postdoctoral position has been invaluable in preparing me for a career as an action based transdisciplinary researcher. I have sound professional and research expertise in the areas of sustainability science, climate change, physical geography, risk assessment, policy analysis, and ecosystem services. Rigorous research training has helped me associate the smallest research thought of a concerned issue on a larger canvas. This belief stems from the knowledge and experience I have gathered from my education and several live projects I have worked on in my home country (India) and abroad (Netherlands, Italy, Ireland, and USA). With a strong motivation for application-oriented research I have been engaged in developing policy tools and frameworks in open as well as close experimental environments. I am trained to analyze a large data set. I have an excellent work ethic and welcome new challenges. I am eager to show that my intelligence and enthusiasm will be a positive contribution to this position.

In addition to my technical expertise, I am very meticulous, well-organized, and energetic. I have an excellent work ethic and welcome new challenges. I look forward to discussing the Postdoctoral Fellow position and how I can best meet your needs. Thank you for the taking time to review my CV and additional documentation. If you have any questions or require additional documentation, feel free to contact me.

Sincerely,

Parveen Kumar