

PhD Scholarship to study environmental hydrology and water quality at Massey University, Palmerston North, New Zealand

We invite applications for a PhD study to investigate potential of innovative management and mitigation strategies to improve water quality in sensitive agricultural catchments in the lower North Island, New Zealand.

The PhD project will aim to develop an integrated, catchment-scale modelling to evaluate different management and mitigation practices to reduce loads of key water contaminants to streams and rivers in the study catchment. The successful candidate is likely to have an Honours or Masters degree or equivalent, with some research experience related to land use, catchment hydrology, water quality, hydrological and water quality modelling, and GIS analysis. Knowledge and experience with relevant modelling software and programming (e.g. Matlab, R) are preferable. The successful candidate must demonstrate good communication and writing skills, show an ability to take initiative, and be a good team member. The position is open to both New Zealand and international applicants.

The PhD study is part of a collaborative research programme between Massey University's Fertilizer and Lime Research Centre (FLRC) and Horizons Regional Council. Horizons Regional Council manages the natural resources of the Manawatu-Wanganui Region of New Zealand. The Council has extensive datasets of; regional geographical information, the quantity and quality of surface waters and groundwaters, and hydrogeological surveys of the region (<https://www.lawa.org.nz/explore-data/manawatu-wanganui-region/>). Massey University FLRC has a strong team of scientists in the area of environmental hydrology, hydrogeology, and soil and earth sciences (<http://www.massey.ac.nz/~flrc/>). The successful PhD candidate will enjoy full support, guidance and supervision from both University staff and Horizons Regional Council scientists.

The PhD candidate will be enrolled in Environmental Science Group at the Turitea Campus of Massey University in Palmerston North, New Zealand.

The Scholarship will pay NZ \$27,000 per annum plus fees for a maximum of 3 years.

Interested applicants are invited to send Ranvir Singh (r.singh@massey.ac.nz) their application including a short description of their research interests, skills and experiences along with a detailed CV. They should also include a sample of their scientific writing (e.g. a published article or conference paper) and name and contact details of three academic referees, by 15th February 2020. The shortlisted candidates will be invited for an online interview in the final selection process.

For further information, please contact Ranvir Singh (r.singh@massey.ac.nz) at Massey University.

Ranvir Singh

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<http://www.massey.ac.nz/massey/expertise/profile.cfm?stref=465040>