

University of British Columbia - Okanagan

I am pleased to advertise a new PhD project in Himalayan tectonics at UBC Okanagan:

Understanding the kinematics, conditions of deformation, and the rates at which processes are operating are fundamental to elucidating convergent systems. Recent advances in (micro)analytical techniques now enable quantification at spatial, and total data collection scales not previously possible. This PhD project will take advantage of those advances to help understand orogenic processes through examination of the Himalayan system.

The goal of this project is to characterize the kinematic evolution of flow across the exhumed, former midcrustal core of the Himalaya now exposed in Nepal. This work will be based on detailed geological mapping and utilize quartz c-axis crystallographic preferred orientation analysis (fabric analyser and EBSD), mineral thermo(barometry) and phase equilibria modelling, and in situ U-Pb and Rb-Sr geochronology on a variety of phases. The comprehensive dataset generated will be used to generate insight into the temporal variation of convergence is accommodated in an evolving orogenic system.

This PhD position is fully funded (salary and analytical costs). All of the analyses for the project will be carried out by the candidate in-house the Fipke Laboratory for Trace Element Research at UBC providing direct, hands-on experience. Those interested are asked to send a full CV and a brief research interest statement via email to kyle.larson@ubc.ca.

Thank you for your consideration,

Kyle Larson

Kyle Larson, PhD

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