2024-25 NSERC USRA PROJECTS -

2024-25 NSERC USRA PROJECTS – School of Earth and Ocean Sciences

SUPERVISOR(S): PROJECT TITLE AND OUTLINE: CODE: **START** DATE: **Unlocking Earth's Secrets: Exploring Crustal Motion and** Earthquake Potential with High-Precision GNSS Technology Dr. Lucinda Leonard The student will receive training and practical experience in **Assistant Professor, School** conducting geodetic fieldwork, data processing, interpretation, of Earth and Ocean Sciences and visualization. The project will involve approximately one week Ileonard@uvic.ca of fieldwork on southern Vancouver Island to collect high-Dr. Yan Jian precision GNSS data at a number of sites. The majority of the Adjunct Assistant Professor, School of Earth and Ocean collected geodetic data to calculate site velocity vectors and Sciences. Geological Survey generate a regional crustal deformation map. This will be of Canada interpreted along with remote sensing and regional LiDAR data to yjiang1@uvic.ca enhance the interpretation of the GNSS velocity field. Additional analysis may be carried out to assess deformati G[c)1nd