

Exploring changing cycling patterns in the City of Edmonton and Development of its Continuous Performance Monitoring Framework

PROJECT DESCRIPTION

With new facilities being installed in the core of the city, it is important to gauge current cycling numbers, behaviours, patterns, perceptions of safety, and safety impacts. In addition, it is important to understand the effects of new infrastructure on these characteristics, and how they advance our progress towards the strategic goals outlined in the Way We Move (Edmonton's Transportation Master Plan). We would particularly focus on how the cycle track integrates with the Complete Streets and Vision Zero programs, both of which have been adopted by the City of Edmonton

There are three goals to this project. The first is to gain a general understanding of the Strava Metro data quality in Edmonton by comparison against ground counts. The second is to establish baseline cycling volumes on the roadway network (within the city's core). The third is to measure network connectivity and monitor network performance within an evaluation framework (developed as part of this project). These tasks will enable future research on understanding the sensitivity of demand to installation of protected cycling infrastructure, such as the three COE projects mentioned above. This is critical component of any future infrastructure planning as it has been demonstrated throughout the world that cycling demand is highly endogenous to provision of high quality infrastructure.

FACULTY-DEPARTMENT

Engineering - Civil & Environmental

DESIRED FIELD OF (STUDENT) STUDY

any engineering discipline, transportation planning, applied math, operations research

INTERNSHIP LOCATION

University of Alberta Main Campus – Edmonton

Contact: Brendan Cavanagh, Internship Coordinator (Inbound)
University of Alberta International
intern@ualberta.ca

NUMBER OF INTERNSHIP POSITIONS

1

INTERNSHIP START DATE

anytime between June 1 - July 4

INTERNSHIP END DATE

3 months from start date

ARE THE DATES FLEXIBLE?

Yes, I am flexible regarding the internship dates. Selected students can contact me to request a date change.