



The Methods Hub Summer Student Program

The Methods Hub is looking for summer students!

Opportunities are available for the summer of 2017 (May-August) for Senior Undergraduate (3rd and 4th) year students in the areas of (bio)statistics, math and actuarial sciences, health informatics, computer science, and the Bachelor of Health Sciences program to conduct research in the areas of clinical/health services research and public health.

During the summer studentship, students are expected to work on a given research project. Students will be expected to attend meetings and events organized by The Methods Hub, educational programming such as seminars, networking activities and submit their summer work to a poster competition for the Campus Alberta Student Conference on Health (CASCH). Students will receive a stipend of \$1500.00 per month during the period of May to August.

Brief project summary and requirement:

Background: Repeated hospitalizations for patients are common and costly, yet partly preventable. However, we know little about patterns of hospitalizations for patients with hypertension and diabetes.

Objectives: This study aims to assess the frequency and temporal pattern of hospitalizations among patients with hypertension and diabetes and identified the risk factors of hospitalizations.

Data source: Data used for analysis include the administrative health database including hospital discharge abstract database, Physician Billing Claims, National Ambulatory Care Reporting System and Pharmaceutical Information Network. Temporal pattern mining and generalized linear regression model will be used to assess the pattern of hospitalizations and identify the risk factors of hospitalization.

Skills needed: Strong programming skills in R and/or SAS, comprehensive knowledge of statistics (3rd or 4th year of undergraduate student in Statistics).

Role of student: The student will conduct the data management on large administrative health care data and extract the data features from the database. She/he will conduct advanced statistical analysis as required by the research project.

Research Environment: The student will have the opportunities to interact with an interdisciplinary team focusing on methodologies development in health service research and health data science. This studentship provides students a great opportunity to work on the “big data” in health, apply their skills and knowledge to solve real problems, and make a difference to Albertans and our health care system.

Please send a copy of your unofficial transcripts to date (course and credit report), sample of R codes, CV/resume, and letter of interest to explain why you are interested in this project to the themethodshub@ucalgary.ca, subject line: Summer Studentship Opportunity.

The deadline of application is May 1st.

Applications that do not include all of the required information will not be considered
****Only candidates selected for interview will be contacted****

For all other information about The Methods Hub, please visit the website:

www.themethodshub.com

For any questions about this opportunity, please email themethodshub@ucalgary.ca.

Thank you for your interest.