



**STRIKE THE
MATCH**

MEET YOUR RESEARCH SUPERVISOR

FACULTY GUIDE

**TRU.CA/RESEARCH
STUDENTRESEARCH@TRU.CA
@TRUSTUDENTRESEARCH**



**THOMPSON
RIVERS
UNIVERSITY**

Faculty of Science

JESS
ALLINGHAM



Department of Chemistry - jallingham@tru.ca

CHEM 1500, CHEM 1520, CHEM 2120, CHEM 4420, CHEM 3240, CHEM 4600, and CHEM 4450

My research focuses on drug design, medicinal chemistry and organic synthesis, as well as chemistry education. Students in my lab can work on organic synthesis projects, investigate natural products, design laboratory experiments or investigate how best to teach complex chemistry concepts. The top 3 qualities I am looking for in a potential student researcher are curiosity, passion and problem-solving skills.

LINDSAY
BLACKSTOCK



Department of Chemistry - lblackstock@tru.ca

CHEM 1500, 1510, AQUEOUS 3010, ATMOSPHERIC 3020

My research consists of assessing and enhancing the student experience in the classroom, designing impactful assessments and creating open educational materials for everyone. The top 3 qualities I am looking for in a potential student researcher are motivation to work, attention to detail, and effective communication.

SHARON
BREWER



Department of Chemistry - sbrewer@tru.ca

GENERAL CHEMISTRY, ANALYTICAL CHEMISTRY, METHOD DEVELOPMENT, APPLIED CHEMISTRY AND ANALYTICAL CHEMISTRY LABS, ENVIRONMENTAL CHEM AND ETHICS

I do research in the areas of chemical education, environmental analysis, water treatment and analytical method development. Current research interests include remote instrumentation as a teaching tool, inquiry-based laboratory curriculum, open educational resource (OER) development and implementation, analytical method development, environmental analysis and water treatment. The top 3 qualities I am looking for in a potential student researcher are organization, independence, and problem-solving.

MARK
RAKOBOWCHUK



Department of Biological Sciences

mrakobowchuk@tru.ca

HUMAN PHYSIOLOGY I AND II

Examine cardiovascular regulation and adaptation in humans. Blood flow regulation to different tissues like muscles, the heart and the brain. Why do people develop cardiovascular disease, and how do we reverse the process? I am looking for research students who are hard workers, persistent, and able to use feedback effectively.

KINGSLEY
DONKOR



Department of Chemistry

kdonkor@tru.ca

ANALYTICAL CHEMISTRY AND PHYSICAL CHEMISTRY

My research program focuses on developing analytical methods in capillary electrophoresis and chromatography and applying these methods in the medical, pharmaceutical, food and environmental industries. The top 3 qualities I am looking for in potential student researchers are diligence, enthusiasm, and willingness to learn.

HEIDI
HUTTUNEN-HENNELLY



Department of Physical Sciences

hhuttunen@tru.ca

GENERAL CHEMISTRY, ORGANIC AND BIO-ORGANIC CHEMISTRY, AND CHEMICAL BIOLOGY

Multi-drug-resistant pathogens are a worldwide health concern. The discovery or synthesis of new antibiotics is a challenging task. Antimicrobial peptides (AMPs), often referred to as "nature's antibiotics," are one class of antimicrobials. My research group is interested in creating novel AMPs using either a de novo approach or by modifying the sequences of known AMPs. Developing novel methods to investigate AMP mechanism of action and structure-activity relationships is an overarching goal. I'm looking for student researchers who are problem-solvers, ambitious, resourceful, independent, curious.

KARL
LARSEN



Natural Resource Science - klarsen@tru.ca

NRSC 3000, 4040, 4050 (wildlife-focus), ENV5 5200 (graduate course), NRSC 4250 (Belize field course)

I am interested in conservation wildlife ecology animal management. My research is the ecology, conservation and management of wildlife, particularly smaller vertebrates like rodents, reptiles and amphibians. The top 3 qualities I am looking for in a potential student researcher are keenness, course background, and interest in a dovetailing experience with their program of study.

JILL
HARVEY



Natural Resource Science - jharvey@tru.ca

NRSC 4130 FIRE ECOLOGY AND MANAGEMENT

I work with students to understand past fire regimes and the effects of fires on forest ecosystems. We center our research on asking interesting questions and collecting field-based datasets. We hope our research will inform forest and fire management actions and policies in BC and beyond. The top 3 qualities I am looking for in a potential student researcher are constantly asking new questions, flexibility, and creativity.

NISHA
PUTHIYEDTH



Computer Science - nputhiyedth@tru.ca

COMP3410 (Operating Systems)

My research is mainly on bioinformatics, machine learning and biological data analysis. My goal is to develop computational models based on machine learning, and statistics. I am particularly interested in developing computational models for digital agriculture. The top 3 qualities I am looking for in a potential student researcher are curiosity, critical thinking skills, and a strong work ethic.

SINA
KESHVADI



Software Engineering - skeshvadi@tru.ca

WEB APP DEVELOPMENT, SOFTWARE SECURITY

My research is on Internet Security, Internet Measurement, and Web Application. The top 3 qualities I am looking for in a potential student researcher are a passion for learning, critical thinking, and effective communication.

DON
NELSON



Biological Sciences - dnelson@tru.ca

MOLECULAR GENETICS, CHEMICAL BIOLOGY, AND RECOMBINANT DNA TECHNOLOGY

I like to develop experimental systems that allow me to manipulate or monitor biological phenomena. The cutting edge is nice (but it's complicated). I like demonstrations. I'm really more interested in the process of research (the road) than in the results obtained (the destination). The top 3 qualities I am looking for in a potential student researcher are a questioning attitude, good work ethic, and a desire to experiment.

MATT
REUDINK



Biological Sciences - mreudink@tru.ca

EVOLUTION, ANIMAL BEHAVIOUR, BIOL 1210, READING AND WRITING

I study evolution and animal behaviour, with a primary emphasis on birds. My research spans from understanding the evolution of ornamental traits like colourful plumage, to tracking birds throughout migration, to understanding the impacts of urbanization on behaviour, to the conservation of threatened and endangered species. The top 3 qualities I am looking for in a potential student researcher are passion for research, attention to detail, and interest in understanding the natural world.

