Welcome to the

Faculty of Engineering and Computer Science

University of Victoria

New Student Welcome 2024

We acknowledge and respect
the lək̓ʷəŋən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day.

University of Victoria

The Dean's Welcome

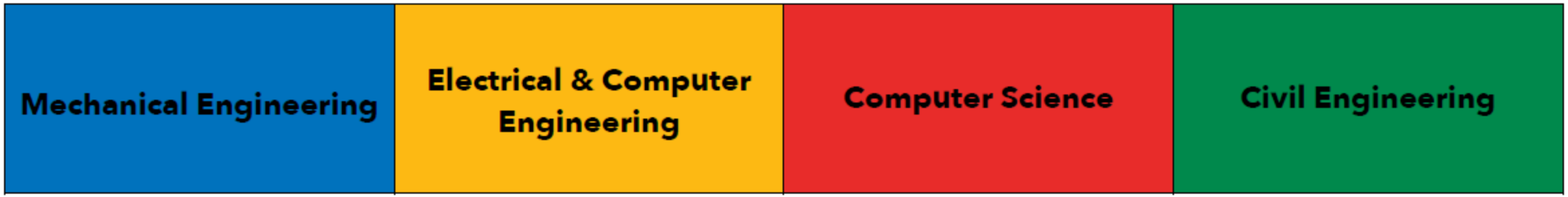
Dr. Mina Hoorfar

New Student Welcome 2024

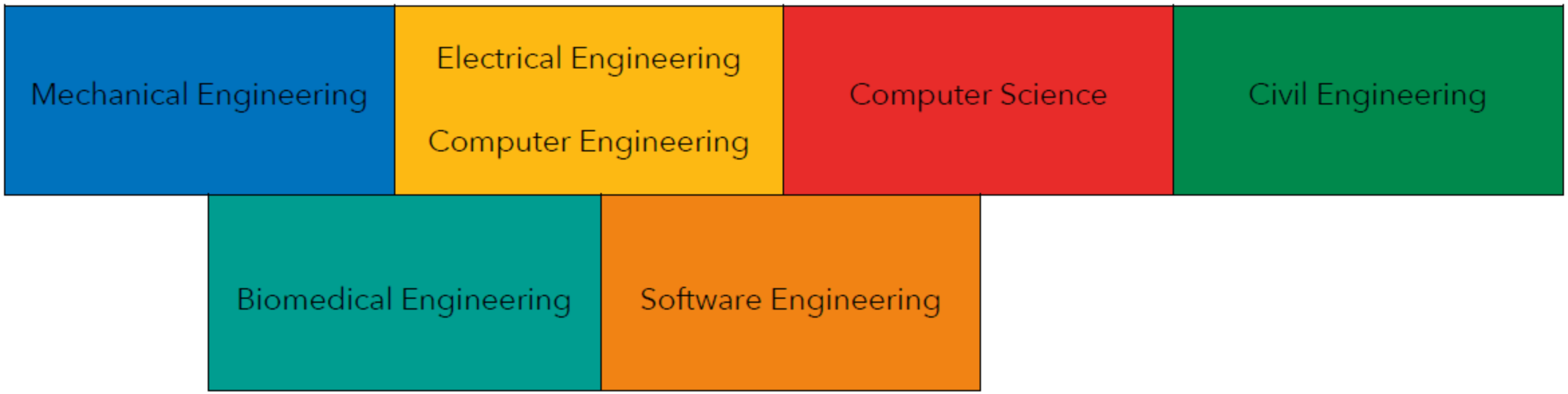
University of Victoria

UVic Engineering and Computer Science

4 DEPARTMENTS



7 PROGRAM AREAS



Introductions:

Dr. Kevin Stanley: Chair, Computer Science

Dr. Thomas Froese: Chair, Civil Engineering

Dr. Michael McGuire: Chair, Electrical & Computer Engineering

Dr. Brad Buckham: Chair, Mechanical Engineering

Dr. Mohsen Akbari: Director, Biomedical Engineering

Dr. Stephen Neville: Director, Software Engineering

Co-op: Meeta Khurana: Associate Director, Co-op & Career

Assistant Dean: Jessica Vandenberghe

University of Victoria

Faculty of Engineering and Computer Science

New Student Welcome 2024

LillAnne Jackson
Associate Dean, Undergraduate

University of Victoria

In all our degrees:

- technical knowledge
- hands-on skills
- problem solving skills
- design skills

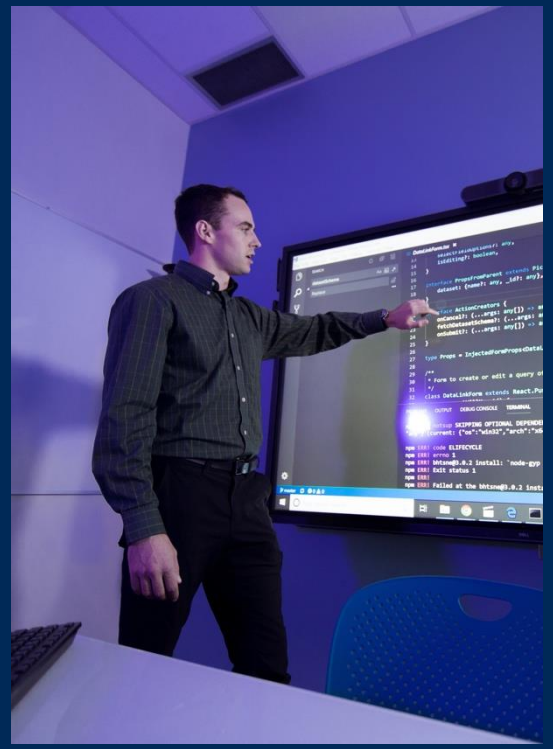
Every degree emphasizes:

- effective communication
- individual & team work
- societal impacts & sustainability
- prioritize:
  - -professionalism
  - -making ethical choices, and
  - -equity

Professional Faculty

Code of Ethics:

- Engineers & Geoscientists of BC (EGBC)
  - https://www.egbc.ca/Code-of-Ethics
- Association for Computing Machinary (ACM)
  - https://www.acm.org/code-of-ethics



truth

honesty

trustworthiness

safeguard human life

safeguard the environment

University of Victoria

Professionalism at UVIC

- UVIC Academic Integrity
  - https://www.uvic.ca/students/academics/academic-integrity/index.php
- Faculty Standards of Professional Behaviour
  - https://www.uvic.ca/ecs/_assets/docs/student-forms/professional-behaviour.pdf

University of Victoria

Program & Course Legal Definitions

- UVIC Academic Calendar: http://www.uvic.ca\calendar\undergrad

- Course Outlines: CSC 110 CSC 111

University of Victoria

Learning

High School ≠ **University**

What's different in university?

Hours in Class

- Less class
- More independent study

Grading

- Less frequent; worth more
- Expected vs. required work

Learning type

- Deeper
- Connect and extend vs. memorize

Independence

- You choose
- Self-check

Slide Credit: A. Hadwyn

What do professors expect?

- Engagement - be there and do the work
- Workload expectations – the 2:1 (or 3:1 ?) rule
- Read outline: pay attention to instructions, purpose and context
- Break tasks down and prioritize
- Take advantage of instructor availability

Other Life Activities . . .

Working while Studying:

- ❑ I will not be working
- ❑ I will work part-time (< 20 hours/week)
- ❑ My work will approach full-time (>= 20 hours/week)

You decide . . .

168 HOURS IN WEEK
- 23 -- in class
- 2 x 23 -- study: 2 hours (min) per class hour
- 7 x 7 -- sleeping (min)
- 21 x 1 -- meals
- 7 x 2 -- exercise, shower, dress, transportation
- 7 x 2 -- email, phone, social media, etc.

TIME FOR WORK = 1 hour

Which grade you receive!

Exercise and Socializing

Critical for your academic success:

- physical health: exercise, nutrition …
- social interaction: social media, family connection …

- alcohol, cannabis, other substances??

- ➢ It affects your academics
- ➢ Keep it legal! . . . And Stay Safe!

This is a big year of transitions …

- Set goals that work for you
- Make choices that feel right for you
- Communicate with important people

Welcome!

Math & Stats Assistance Centre

Elliot 165 (Betty & Gilbert Kennedy MSAC)

Library 129 (Learning Commons)

Open study space:
9:30am – 4:30pm Mon-Fri

Tutors available:
11:30am – 1:30pm Mon, Thur
9:30am – 1:30pm Tue, Wed, Fri

Elliot 165 (Betty & Gilbert Kennedy MSAC)

Tutors available:
2:30pm – 6:30pm Mon-Fri
12:30pm – 6:30pm Sun

Library 129 (Learning Commons)

UVIC.CA/MSAC

Free drop-in tutoring for 100- and 200-level mathematics and statistics.

A friendly and supportive collaborative study space.

Visit our website for schedules and resources!

LTSI: STUDENT ACADEMIC SUCCESS

University of Victoria

INTRODUCING

UVIC Learn

Learner Empowerment and Academic Resource Network

A website for University of Victoria students that supports the development of learning skills and habits for academic success.

VISIT US AT

www.uvic.ca/uviclearn

FIND DIGITAL RESOURCES ON TOPICS INCLUDING

- Getting Started
- Researching
- Communicating
- Using Learning Technologies
- Your Well-Being

FIND MORE INFORMATION BY SCANNING THIS QR CODE

University of Victoria | Learning and Teaching Support and Innovation

CENTRE FOR ACADEMIC COMMUNICATION

- Planning for a successful term by understanding academic expectations and time management
- Writing, reading and speaking for a variety of methods including: posters, blogs, presentations and e-portfolios
- Understanding academic integrity and the ethical values of learning

Learning Commons, Mearns Centre for Learning – McPherson Library: Offices 135 f, i-m

uvic.ca/cac | uvic.mywconline.com | cacmgr@uvic.ca

Complete the **new course** today!

Integrity in Practice

This self-paced online course is designed to equip students with a basic understanding of the values of academic integrity, essential for their success both within and beyond the university.

University of Victoria | Learning and Teaching Support and Innovation

Learn more and enroll

onlineacademiccommunity.uvic.ca/uviclearn/studying-exams/integrity-in-practice/

University of Victoria
Engineering and Computer Science

Welcome to the Faculty of Engineering and Computer Science

LeAnne Golinsky and David Clark

University of Victoria

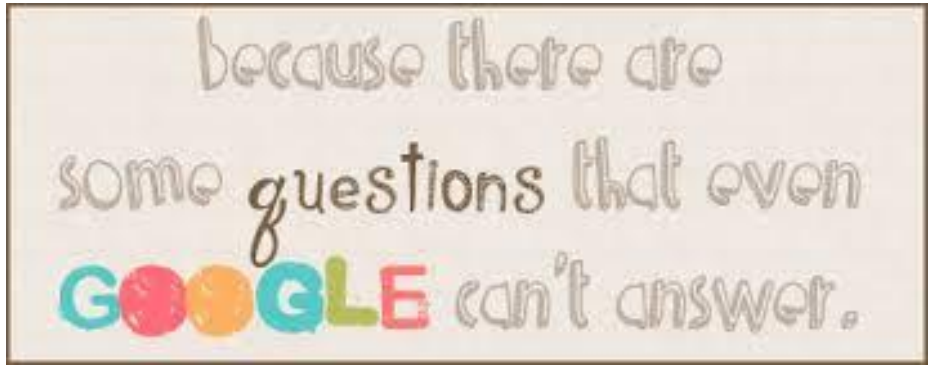
New Student Welcome 2024

Faculty of Engineering and Computer Science Degree Programs

BSc	Computer Science
	*Data Science
BEng	Biomedical Engineering
	Computer Engineering
	Civil Engineering
	Electrical Engineering
	Mechanical Engineering
BSEng	Software Engineering

WHAT IS ADVISING?

- Program planning & advice
- Registration questions
- Program declarations
- Workload / Success help
- Academic & illness issues
- Campus referrals



NOT SURE WHERE TO GO?

Start at the Engineering Undergraduate Office – EOW 206
engr@uvic.ca

- General questions and directions
- Access to other advisors for programs

- **Mechanical, Software** – Belinda de Jong
- **Biomedical, Computer, Civil, Electrical** – Alejandra Montenegro
- **Prospective CSC students, Data Science, Undeclared** – Jeanette DeLong
- **BEng/BSEng admissions, Undeclared** – LeAnne Golinsky
- **1st, 2nd, 3rd year CSC students** – David Clark
- **4th year, second degree** – Irene Statham
- **Front line advising** – Mimi, Marika and Tracy

Resources for Success

Math Assistance Centre	Blend of drop-in and collaborative sessions Two locations – ELL and Library
Centre for Academic Communication	Academic writing, critical reading, presentation and speaking skills – see the CAC website for details
Learning and Teaching Support and Innovation (LTSI)	All things learning and technology! – technical support with course platforms. See Student portal on LTSI website
Learning Strategies Program	UVIC Learn Anywhere, Learning Strategies program, meet with a Learning Strategist
Chemistry	Meet with the instructor
Physics	Room 129 Learning Commons - Library
PASS Program – Peer Advising	ECS 253 – drop-in/booked app., ecspass@uvic.ca

ADJUSTING FIRST YEAR SCHEDULES

- Reducing course load is fine! ENGR - Do 1st year over 3 terms; CSC flexible schedule
- Slows things down – time for other things!
- Finish 1st year by August instead of April
  - Some courses in Summer session

- Interested? There is still time to change….

UVic GPA

- You are probably familiar with % grades
- At UVic, your official grades are reported on your transcript as Letter Grades
- Letter grades have a ‘grade point value’
- Your GPA determines your academic standing

https://www.uvic.ca/registrar/assets/docs/ot-legend.pdf

UVIC Letter	Points
A+	9
A	8
A-	7
B+	6
B	5
B-	4
C+	3
C	2
D	1
F	0
N	0

Your GPA matters – Academic “Standing”

- Your GPA is reviewed twice a year
  - Winter – **September – April**
  - Summer – **May – August**
- Good Standing – 2.0 or better
- Probation – Less than 2.0
- Required to withdraw – unsuccessful probation period
- Acknowledge early warning signs. Come talk to us. We can help!

Program Declarations

- **Engineering**
  - Rank your program choice for 2nd year on our website in February
  - Minimum requirements – 2nd year standing, C+ average and no grades less than C
  - Competitive averages may be required
  - ALL program requirements are considered
  - Submit your program rankings by: April 30th
  - Decisions by: May 31st
- **Computer Science**
  - After successful completion of CSC 115 (or 116) and Math 122
  - All required CSC, MATH, SENG, STAT and ENGL courses must have minimum grades of C
  - Declare after completion of Year 2, there is a form!
  - Co-op is separate program, if you want CSC Co-op program you have to apply, see your program advisor.

2nd year….and beyond!

Admitted to the 2nd year of your program?

- Consider your specialization or options
- Consult your advisor

I want to drop a course

September 17th	100% drop deadline	100% of tuition back for course(s) dropped on or before this date
October 8th	50% drop deadline	50% of tuition back for course(s) dropped on or before this date
October 31st	Academic drop deadline	No tuition back, but won't fail the course

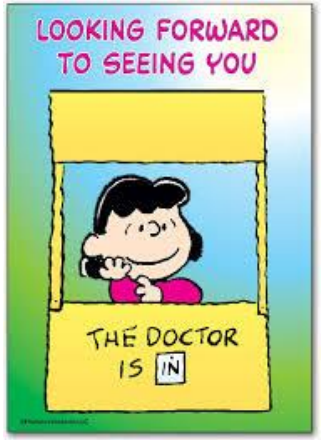
Results of assignments, labs, midterm unsatisfactory?
Talk to your advisor!
Use feedback to make the right decisions for you!

What can I do if…

…I am ill, get in an accident, something happens in my family

1. Consult immediately with Counselling Services, Health Services or another health professional

2. See your Advisor



Learning and Personal Supports

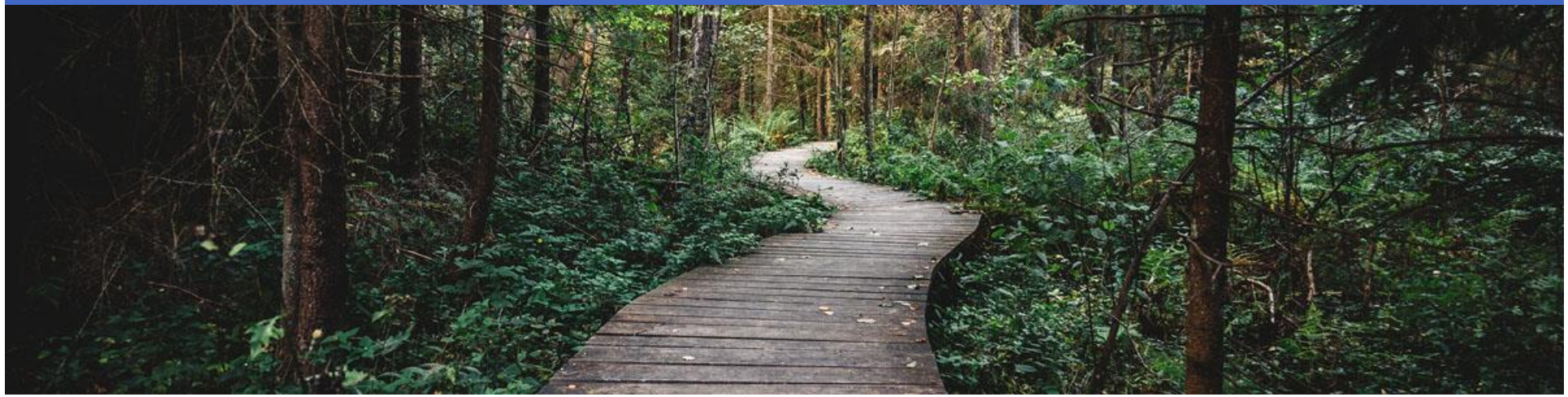
Student health in the Health and Wellness Building (near CARSA)

- Medical
- Counselling
- Spiritual
- Support Connect – free, confidential mental health support 24/7

Centre for Accessible Learning (CAL)

- Adaptive/Assistance technologies
- Academic accommodations

Engineering and Computer Science Brightspace Advising Site



- Will show up in your **Brightspace dashboard.**

- Contains program planning information, other resources, appointment booking information, forms and more.

STUDENT LIFE

CAMPUS TOURS

REGISTER HERE

uvic.ca/orientation

MONDAY SEPTEMBER	TUESDAY SEPTEMBER	WEDNESDAY SEPTEMBER	THURSDAY SEPTEMBER	FRIDAY SEPTEMBER
02	03	04	05	06

COMMUTER STUDENT WELCOME

REGISTER HERE

uvic.ca/orientation

WEDNESDAY
SEPTEMBER
11

SNGEQU HOUSE
CONFERENCE CENTRE

3:00 - 5:30 P.M.

NEW STUDENT ESSENTIALS | VIDEO SERIES

VIDEO

Your ECS Community

University of Victoria

Co-operative Education

&

Work Experience

University of Victoria

Engineering & Computer Science Co-op Program

- Leo Spalteholz

Co-operative education at UVic

What is co-op?

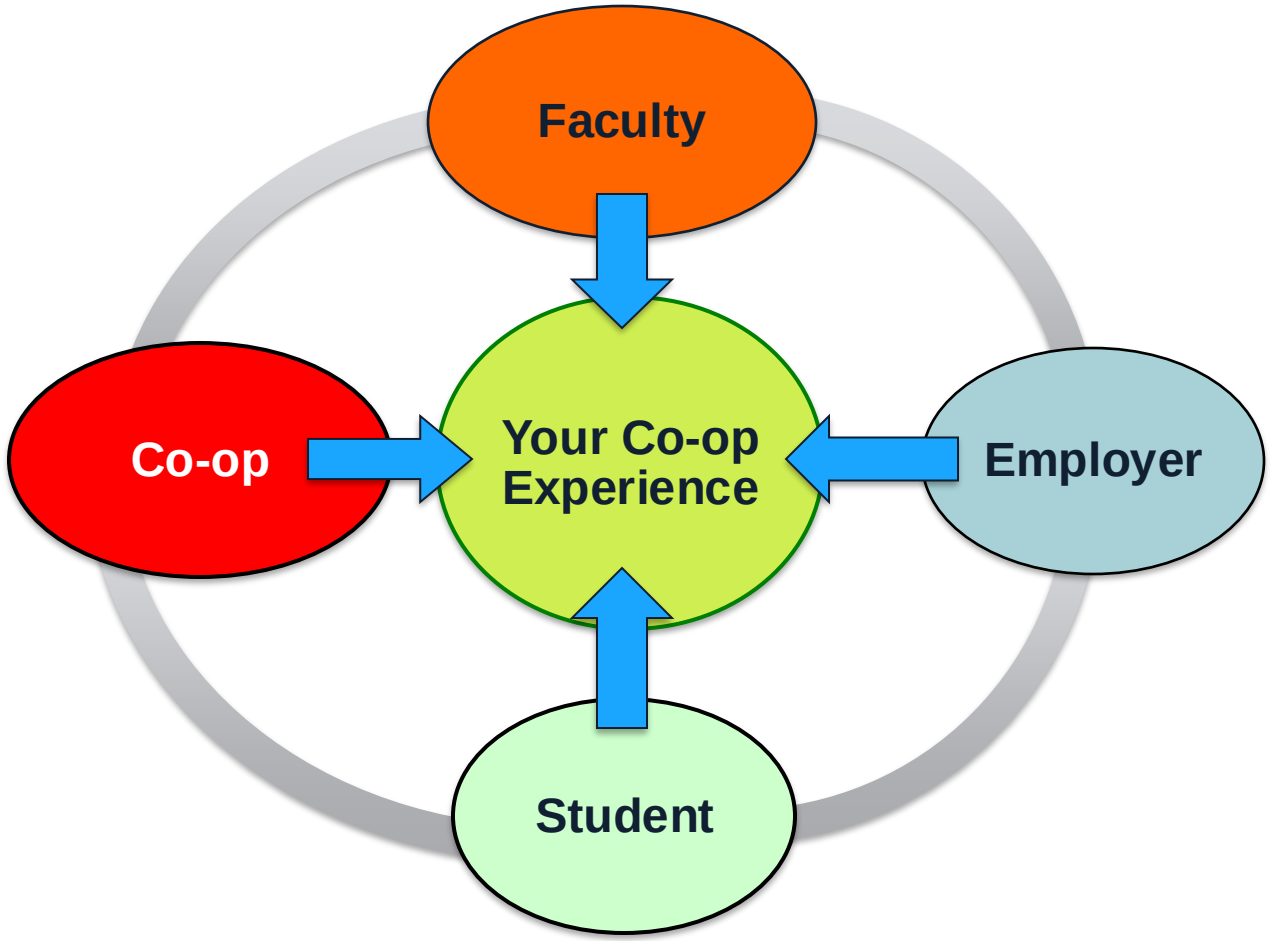
- **Alternate** class terms with paid work terms
- Gain **hands-on experience** in engineering/computer science
- Discover **what you love to do** and **what you're great at** by putting your knowledge, skills and abilities to work.
- Learn **what the world needs** through hands-on experience
- **Try different career options** (and get paid!)

tl;dl

Engineering students: pay attention in ENGR130, it has everything you need to know about co-op to start

Computer science students: sign up to co-op in your second year.

Integrating Work Terms with Academics – it's a Co-operative Partnership



Computer Science

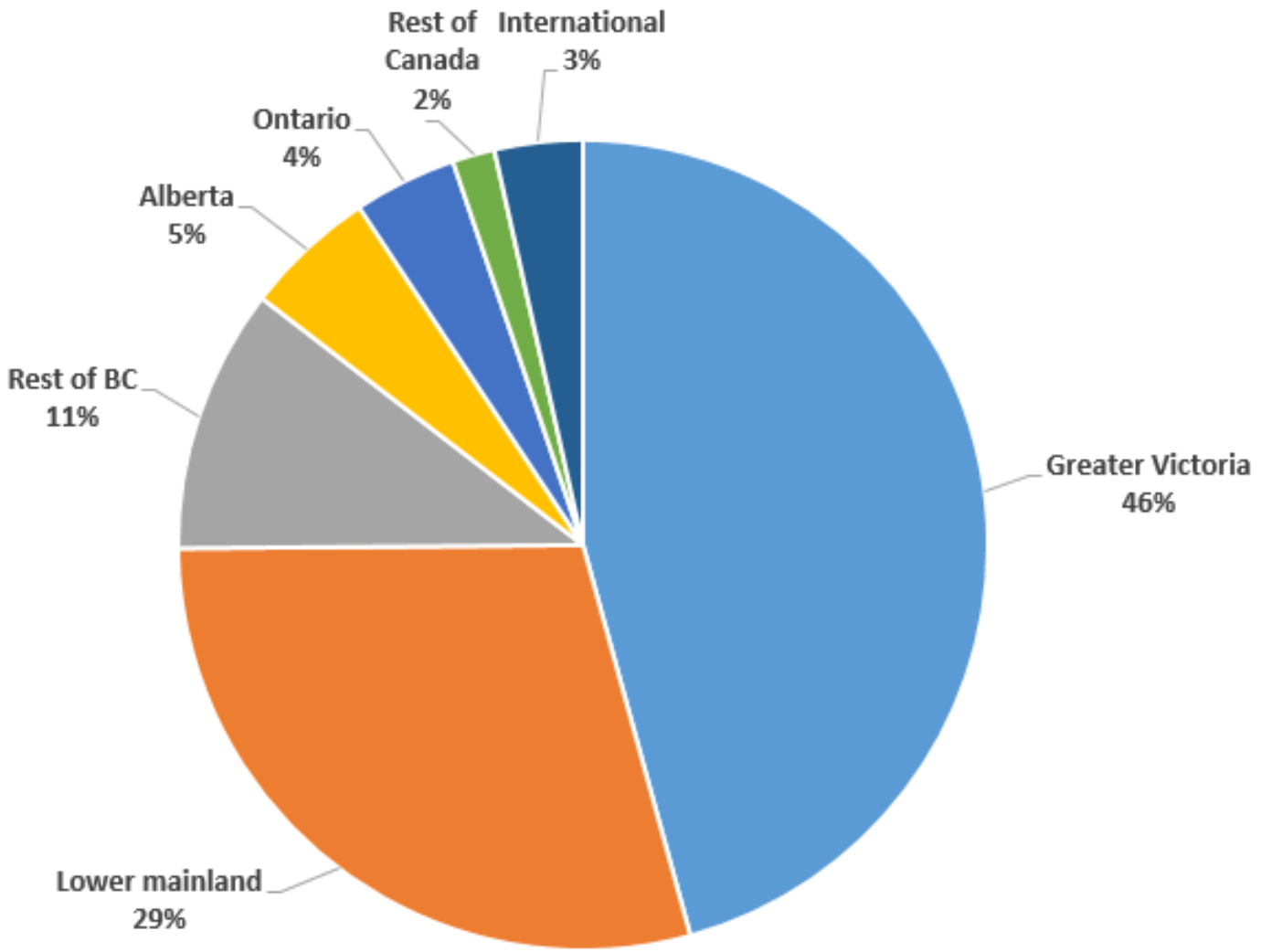
- **Apply to co-op** in your second year (applications accepted Sep and Jan)
- There are grade requirements. Search “UVic CSC co-op”
- Will complete **1-4 four-month work terms**

Engineering

- **Automatically enrolled** in Co-op when admitted to engineering.
- Will complete **4 four-month work terms** as part of your B.Eng / B.SEng program

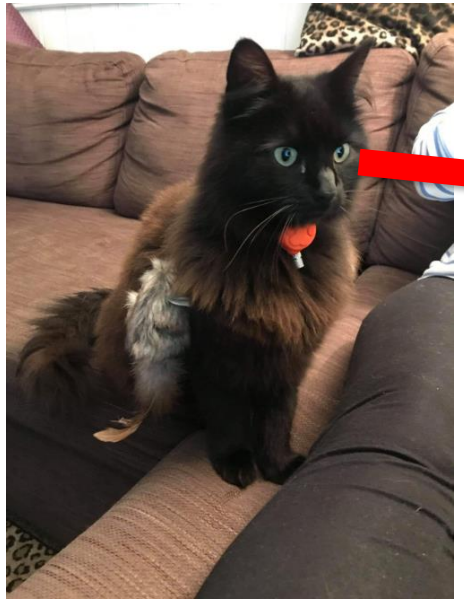
A few facts & figures from last year …

- 2190 ECS students on work terms
- 3691 co-op jobs posted in our co-op portal
- Avg salary: $3934/month

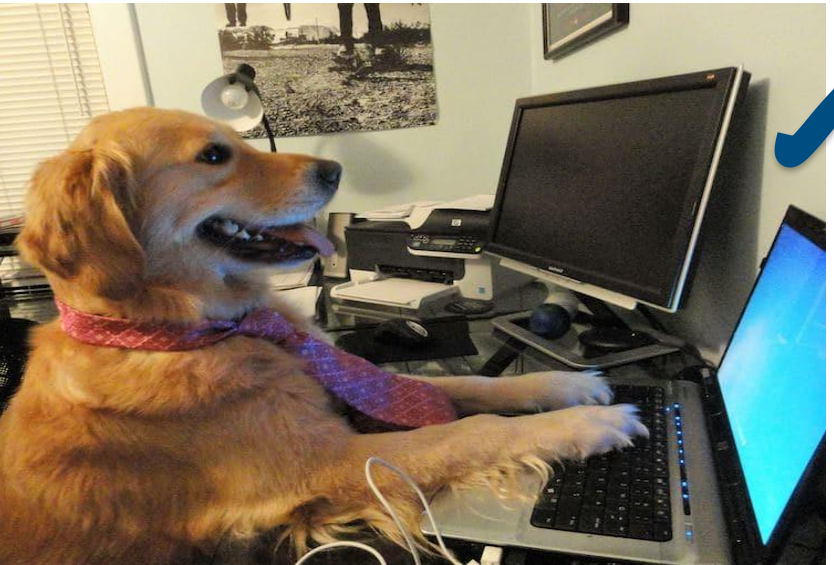


CO-OP + CAREER

Everyone takes a different path



A fulfilling career



It’s OK

We’re here to help

University of Victoria

We’re here to help

CO-OP + CAREER

MEET *the* COORDINATORS

Ash Senini
Biomedical Engineering / Software Engineering
(student # ends in 0-4)

Kelly Stegman
Civil & Electrical Engineering
(student # ends in 0-3)

Leo Spalteholz
Civil Engineering
(student # ends in 4-9)

Monty Raisinghani
Computer Engineering / Electrical Engineering
(student # ends in 4-9)

Calvin Tripp
Mechanical Engineering
(student # ends in 0-4)

Susan Fiddler
Mechanical Engineering
(student # ends in 5-9)

Wendy Beairsto
Graduate Studies & Engineering Undeclared

David Woodward
Applied Data Science
(MADS)

Cheryl Beaumont
Co-op Coordinator - Vancouver

Sheryl Thompson
Computer Science
(student # ends in 0 -4)

Mostafa Rahimpour
Computer Science
(student # ends in 5-9)

Imen Bourguiba
Software Engineering
(student # ends in 5-9)

Master of Engineering in Telecommunications and Information Security (MTIS)

We're here to help

Also:

- Employer info sessions
- Career fairs
- Networking events
- Skills workshops
- Employer in residence
- Interview practice
- Etc, keep an eye out for the Co-op Events email

CO-OP + CAREER

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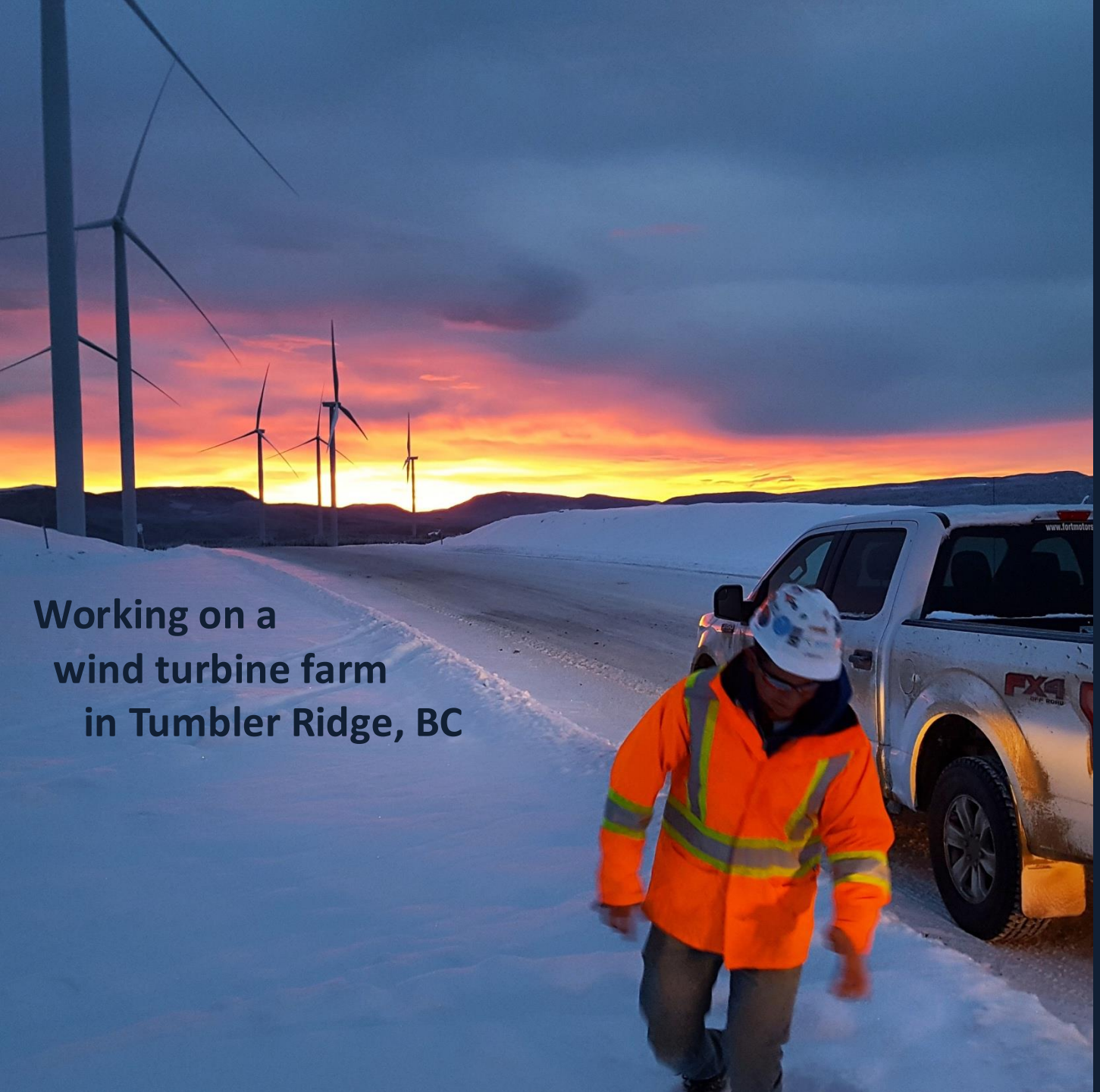
Learning about solar energy with Charge Solar in Victoria

Designing and testing electrical upgrades at Teck Highland Valley Copper in Logan Lake, BC

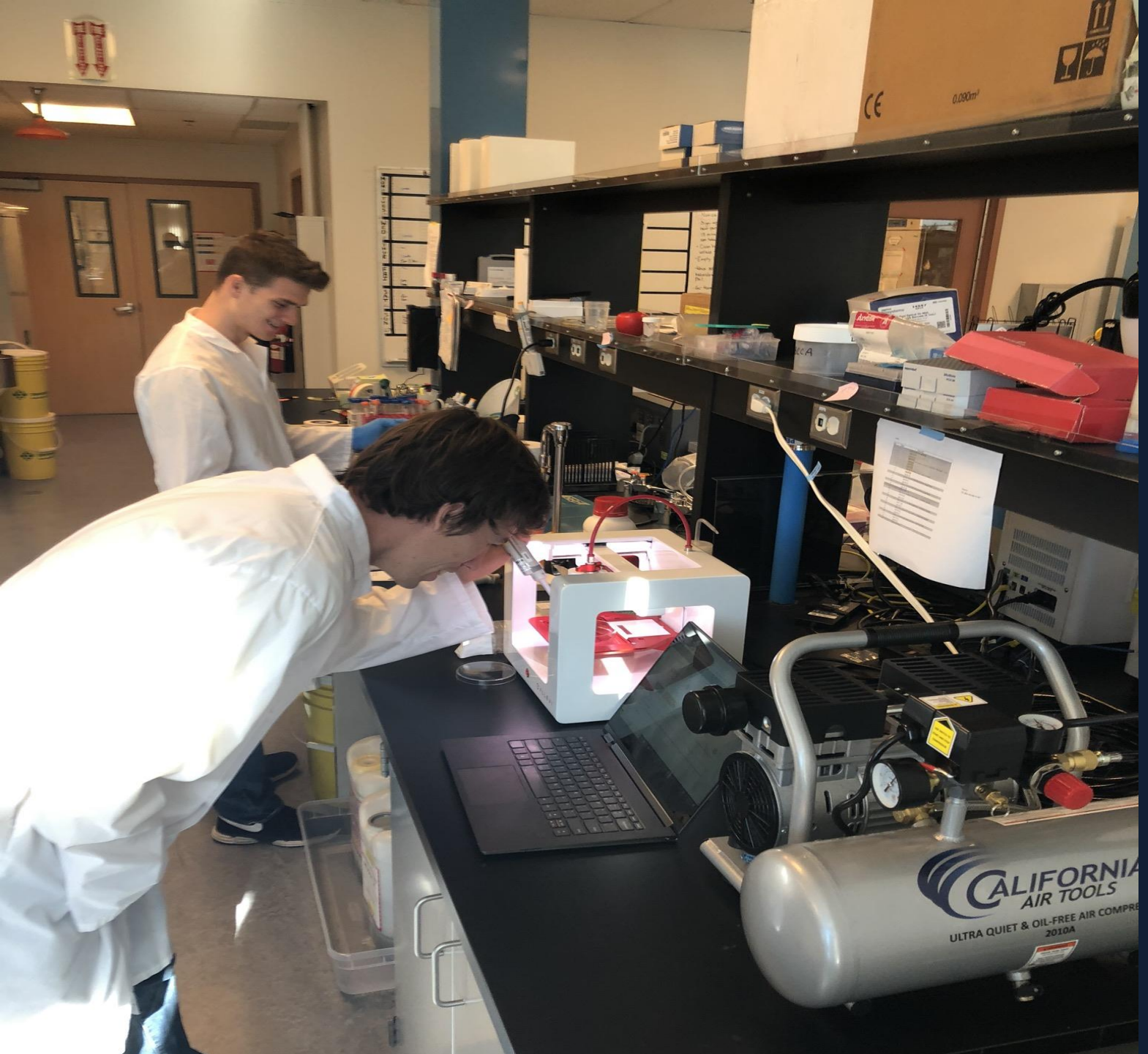
Testing a car racing simulator at VRX Simulators in Sidney

Researching stream crossing techniques for the construction of pipelines.


Working on a
wind turbine farm
in Tumbler Ridge, BC

A computer science student at work

Designing, programming and testing radios for the RCMP in Ottawa
RCMP
Canada



Working in a research lab

Surveying the topography for site construction at a mountain top site near Telegraph Cove on Vancouver Island

Jessica Vandenberge

Assistant Dean

Community and Culture

University of Victoria

Giveaway Time !!

- How much study time is needed to be successful?
- What is the purpose of instructor office hours?
- Which 1st year calculus course should Engineering & Computer Science students take?
- What is the deadline to drop a course with 100% tuition refund?
- What is the final deadline to drop a course?
- What do you do if something unexpected or unavoidable happens?
- Where are the faculty's Co-op offices?

Questions - Discussions

Welcome to our community

University of Victoria