

**2024/2025 WORK STUDY PROGRAM  
JOB POSTING**

**JOB TITLE:** EENG 4 - Research Assistant

**DEPARTMENT NAME:** Electrical and Computer Engineering

**CONTACT NAME:** Peter Driessen

**JOB DESCRIPTION:**

Projects related to Software Defined Radio, including to create, modify and test laboratory exercises for the telecommunications teaching lab for courses ECE 350 Communications Theory and Systems I, ECE 417 Software Defined Radio and ECE 450 Communications Theory and Systems II. Related work includes implementation of software radio algorithms for research and experimental education.

Software defined radio allows radio functions to be programmed in software. Example functions are receiving AM and FM broadcast signals, shortwave data signals as well as digital cellphone and wireless internet signals. The job will be to first assist with setting up SDR hardware, followed by testing existing software written at UVic and other universities, and then write software, test and debug and revise the software, document the results. Software may include GNU Radio, MATLAB Simulink, and hardware platforms mainly the Flex and USRP SDR families, as well as others.

**QUALIFICATIONS:**

Third year or fourth year undergraduate or graduate student in Electrical or Computer Engineering. Preference will be given to candidates with an Amateur radio certification of any level, or coop experience related to telecommunications, signal processing, or software defined radio.

**JOB LOCATION ON-CAMPUS:** ELW402 / ELWA309 / Remote

**WORK STUDY WAGE:** \$18.50/hour (including 4% vacation pay)

**DEPARTMENT TOP UP:** \$5/hour (plus 4% vacation pay)

**HOURS AVAILABLE:** 100 hours

**HOW TO APPLY:** Via e-mail to Peter Driessen at [peter@ece.uvic.ca](mailto:peter@ece.uvic.ca) with a cc to [management@propagationlab.ca](mailto:management@propagationlab.ca)

APPLICANTS MUST BE ELIGIBLE TO PARTICIPATE IN THE WORK STUDY PROGRAM  
For details go to: <http://www.uvic.ca/registrar/safa/work-study/index.php>