

**University of Victoria**  
**Posting for CUPE 4163 Specialist Instructional (TA) – Fall 2026**

Department: **Mechanical Engineering**

Term of appointment: **TAs are expected to be available from the beginning of the semester (Sep 9, 2026) and available to assist with marking the final examination (exam period is Dec 10-23, 2026).**

Hourly Rate: **\$34.72**

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| <b>BME 200 - Molecular and Cellular Physiology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Instructor: | <b>K. Valente</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                   |
| <ul style="list-style-type: none"><li>Responsible for grading assignments, holding office hours online, and running tutorials online that relate analyzing cells at a molecular level using engineering principles.</li><li>Responsible for running oral online exams together with the instructor.</li><li>Position will include running labs (face-to-face or online - still to be confirmed). Labs require a certain level of expertise on microfluidics, PCR and cell culture, in addition to WHMIS and Biosafety certificates from OHSE UVic.</li></ul> |             |                   |

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| <b>BME 320 – Engineering Materials with BME Applications</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            | Instructor: | <b>K.Valente<br/>E.Askari</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                               |
| <ul style="list-style-type: none"><li>Candidate should have a strong background in material science (including metals, semi-conductors, ceramics and polymers)</li><li>Candidate should have a strong background in biomedical materials</li><li>Candidate must be familiar with running laboratory classes</li><li>Candidate must have excellent time management skills in addition to interpersonal and communication skills</li><li>Candidate must complete a WHMIS safety training course</li></ul> |             |                               |

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| <b>BME 401A/MECH 580 A04 – Biomechanical Modeling</b>                                                                                                                                                                                                 | Instructor: | <b>C. Dennison</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                          |             |                    |
| <ul style="list-style-type: none"><li>Knowledge of undergraduate solid and fluid mechanics</li><li>Experience in liaising with undergraduate and graduate students</li><li>Asset: familiarity with MATLAB, Python, and Finite Element codes</li></ul> |             |                    |

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| <b>BME 410/510/MECH 580 A01 - Bio Printing: 3D Printing Body Parts</b>                                                                                                                                                                          | Instructor: | <b>E. Askari</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                    |             |                  |
| <ul style="list-style-type: none"><li>Excellent interpersonal and communication skills</li><li>Previously TA'd this course preferred</li><li>Expertise in cell culture, 3D Bioprinting using the Cellink bioprinters (BioX or LumenX)</li></ul> |             |                  |

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| <b>BME 500 – Medical Device and Systems Design</b>                                                                                                                                                                                                                                                                                                                                                           | Instructor: | <b>S. Fardindoost</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                 |             |                       |
| <ul style="list-style-type: none"><li>Background in biomedical engineering or related fields, with a solid understanding of medical devices, design principles, and regulatory standards (e.g., Health Canada, FDA).</li><li>Strong communication and organizational skills to support student teams, provide feedback on project work, and assist in evaluating design reports and presentations.</li></ul> |             |                       |

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| <b>BME 503 – Imaging for Medical Device Design</b>                                                                                                                                                                                                                                                                         | Instructor: | <b>P. Vakiel</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                               |             |                  |
| <ul style="list-style-type: none"> <li>• Strong communication and organizational skills to support student teams, provide feedback on project work, and assist in evaluating design reports and presentations.</li> <li>• A solid understanding of medical imaging devices, especially ultrasound, is an asset.</li> </ul> |             |                  |

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| <b>BME 560 – Biomanufacturing Processes and Regulatory Strategy</b>                                                                                                                                                                                                                                                                                                                   | Instructor: | <b>J. Phelps</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                          |             |                  |
| <ul style="list-style-type: none"> <li>• Strong background in mammalian cell culture and purification of cell products.</li> <li>• Background in bioprocessing and regulatory standards for biologics (e.g., Health Canada, FDA).</li> <li>• Strong communication and organizational skills to support student teams and provide feedback on assignments and project work.</li> </ul> |             |                  |

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| <b>ENGR 110/112 - Design and Communication I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Instructor: | <b>F. Firmani</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                   |
| <ul style="list-style-type: none"> <li>• Primary duty is interacting with student teams online during labs advising students on their design exercises and projects, marking, student feedback. Also time during lecture hour on team learning activities.</li> <li>• You must be outgoing, enjoy interacting with students, and able to communicate clearly and effectively in spoken and written English.</li> <li>• Background in practical engineering design (concept generation/selection/refinement) and teamwork (conflict management, expectation setting) is essential</li> </ul> |             |                   |

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| <b>MECH 200A – Intro to Technical Drawing and CAD</b>                                                                                                                                                                                                                                                                                                                    | Instructor: | <b>V. Ahsani</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                             |             |                  |
| <ul style="list-style-type: none"> <li>• Excellent interpersonal and communication skills</li> <li>• Proficiency with SolidWorks</li> <li>• Solid background in Engineering Drawing and descriptive geometry</li> <li>• Being familiar with the Engineering Design Process</li> <li>• Available to supervise SolidWorks labs/tutorials remotely and in-person</li> </ul> |             |                  |

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| <b>MECH 240 - Thermodynamics</b>                                                                                                                                                                                             | Instructor: | <b>H. Struchtrup</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                 |             |                      |
| <ul style="list-style-type: none"> <li>• Strong background and knowledge in thermodynamics</li> <li>• Excellent interpersonal and communication skills</li> <li>• Must be able to take initiative and be flexible</li> </ul> |             |                      |

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| <b>MECH 242 - Dynamics</b>                                                                                                                                                                                                     | Instructor: | <b>M. Amereh</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                   |             |                  |
| <ul style="list-style-type: none"> <li>• Knowledge of rigid body dynamics and related mathematical background (vector algebra, matrix algebra, coordinate representation of vector equations using matrix notation)</li> </ul> |             |                  |

- Experience with MATLAB and Simulink (for consulting with students on numerical implementations of solutions to problem sets)
- Duties include consulting with students, grading assignments, and running tutorials

**MECH 320 – Mechanics of Solids II**

Instructor:

**B. Nadler**

Special Skills or Other Requirements:

- Grading quizzes, labs and exams
- Lab oversight - monitoring student experiments, enforcing strict safety protocols, and providing one-on-one assistance

**MECH 342 – Dynamics II**

Instructor:

**B. Buckham**

Special Skills or Other Requirements:

- Preferably has prior experience with the course or a related subject
- Comfortable using Brightspace, MATLAB, and OBS Studio
- Has completed undergraduate dynamics courses and is confident in deriving and working with equations of motion for rigid bodies in 3D.

**MECH 350 – Engineering Design**

Instructor:

**D. Olender**

Special Skills or Other Requirements:

- Excellent interpersonal and communication skills are essential.
- Candidates must have demonstrated experience in Engineering Design.
- Must have completed Mech Eng. Machine Shop safety course, or permission of the Department Machinist to work in the Machine Shop.

**MECH 381 – Control Systems II**

Instructor:

**H. Najjaran**

Special Skills or Other Requirements:

- MATLAB and SIMULINK proficiency
- Knowledge of classical control (frequency domain)
- Familiarity with modern control (time domain)

**MECH 390 – Energy Conversion**

Instructor:

**A. Rowe**

Special Skills or Other Requirements:

- An ideal candidate will have previously taken courses or have similar experience
- Preferably have been a teaching assistant for the course before

**MECH 392 – Mechanics of Fluid II**

Instructor:

**P. Oshkai**

Special Skills or Other Requirements:

- Strong background in fluid mechanics
- Ideal candidate will have previously taken this course or equivalent
- Preferably has been a teaching assistant for the course before

**MECH 395 - Heat Transfer**

Instructor:

**J. Lee**

Special Skills or Other Requirements:

- Explaining concepts & methods for heat conduction, convection & radiation calculation
- Helping students to apply these methods to energy systems, bio systems & manufacturing
- Guiding students to recognize examples of HT in daily life (e.g. the kitchen, HVAC)

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| <b>MECH 400A – Capstone Design Proposal</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | Instructor: | <b>S. Roberts</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                   |
| <ul style="list-style-type: none"> <li>• Experience with Engineering Design</li> <li>• Experience with machine shop manufacturing, software and electronics</li> <li>• Previous experience setting design criteria/specifications</li> <li>• Excellent communication – verbal and written</li> <li>• The ability to understand various complex problems.</li> <li>• The ability to interact with and guide students to provide project direction for students.</li> </ul> |             |                   |

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| <b>MECH 410/520 - Computer-Aided Design and Engineering</b>                                                                                                                                                                          | Instructor: | <b>Z. Dong</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                         |             |                |
| <ul style="list-style-type: none"> <li>• Previously taken MECH 410/520 or equivalent course required</li> <li>• Knowledge of Siemens NX CAD/CAE (FEA/CFD) and ANSYS required</li> <li>• Knowledge of Solidworks desirable</li> </ul> |             |                |

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| <b>MECH 424 – Materials for Sustainability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Instructor: | <b>B. Yu</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |              |
| <ul style="list-style-type: none"> <li>• Solid knowledge of materials science (e.g. MECH 285), solid mechanics (e.g. MECH 220), and thermal properties (e.g. MECH240)</li> <li>• Experience in materials selection, using ANSYS Granta EduPack, and/or life cycle analysis package</li> <li>• Excellent communication skills, both verbal and written</li> <li>• The ideal candidate should have a strong interest in sustainable technologies and climate action</li> <li>• This is a project-based learning course. The ideal candidate needs to demonstrate the ability to mentor student teams, support students in project planning, and provide constructive feedback on design proposal.</li> </ul> |             |              |

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| <b>MECH 427 A01 – Exergy Conversion &amp; Storage</b>                                                                              | Instructor: | <b>A. Rowe</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                       |             |                |
| <ul style="list-style-type: none"> <li>• Knowledgeable in Thermofluids – thermodynamics, heat transfer, fluid mechanics</li> </ul> |             |                |

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| <b>MECH 443/541 – Advanced Thermodynamics</b>                                                                                                                           | Instructor: | <b>H. Struchtrup</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                            |             |                      |
| <ul style="list-style-type: none"> <li>• Good knowledge of Thermodynamics</li> <li>• Ideal candidate will have previously taken course or similar experience</li> </ul> |             |                      |

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| <b>MECH 446/MECH 546 – Intro to Ocean Engineering</b>                                                                                                                                                                                                                                                      | Instructor: | <b>B. Robertson</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                               |             |                     |
| <ul style="list-style-type: none"> <li>• Knowledge of ocean waves and basic hydrodynamics</li> <li>• Hydrodynamic modelling software (ProteusDS, WEC-Sim, OrcaFlex, etc)</li> <li>• Excellent interpersonal and communication skills</li> <li>• Must be able to take initiative and be flexible</li> </ul> |             |                     |

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| <b>MECH 450A/MECH 580 A07 - Nuclear Science, Materials, and Techniques</b> | Instructor: | <b>B. Sawicka</b> |
| <u>Special Skills or Other Requirements:</u>                               |             |                   |

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| <ul style="list-style-type: none"> <li>• Experience grading qualitative and quantitative assessments (with answer keys)</li> <li>• Strong writing communication skills</li> <li>• Some familiarity with Course Spaces, and inputting grades and comments</li> </ul> |
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| <b>MECH 450D/580 A03 – Engineering Optimization</b>                                                                                                                                                                                                                                                                                                                                                             | Instructor: | <b>R. Marques</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                                                                                                                                                                                                    |             |                   |
| <ul style="list-style-type: none"> <li>• Solid knowledge of linear algebra (matrix algebra and determinants) and calculus (differential calculus and Taylor series).</li> <li>• Excellent interpersonal and communication skills (for consulting with students)</li> <li>• Proficiency with MATLAB software and knowledge of programming in Python are required (for marking students’ assignments).</li> </ul> |             |                   |

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| <b>MECH 458/554 - Mechatronics</b>                                                                                                                                              | Instructor: | <b>H. Najjaran</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                    |             |                    |
| <ul style="list-style-type: none"> <li>• Hands-on experience with C programming</li> <li>• Atmel microprocessor programming</li> <li>• Previously taken MECH 458/554</li> </ul> |             |                    |

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| <b>MECH 459/558 - Fundamental of Hybrid Electric Vehicles</b>                                                                                                                                      | Instructor: | <b>Z. Dong</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                       |             |                |
| <ul style="list-style-type: none"> <li>• Previously taken MECH 459/558 required</li> <li>• Knowledge of MATLAB/Simulink required</li> <li>• Knowledge of ADVISOR and AUTONOMIE required</li> </ul> |             |                |

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| <b>MECH 473 – Ferrous + Non-Ferrous Metal</b>                                                                                                                                                                                      | Instructor: | <b>R. Herring</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                                       |             |                   |
| <ul style="list-style-type: none"> <li>• Previously taken materials science or materials engineering course (eg. Mech 285) required.</li> <li>• Ideal candidate will have previously taken course or similar experience</li> </ul> |             |                   |

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| <b>MECH 483 /MECH 510/BME 525 – Mech/Energy Conv. for Living Cells</b>                                                                                                                                          | Instructor: | <b>S. Fardindoost</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                                    |             |                       |
| <ul style="list-style-type: none"> <li>• Ideal candidate has a background and an interest in the workings of living cells</li> <li>• Preferably have been a teaching assistant for the course before</li> </ul> |             |                       |

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| <b>MECH 487 – Sensors and Actuators</b>                                                                                                                         | Instructor: | <b>N. Dechev</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                    |             |                  |
| <ul style="list-style-type: none"> <li>• Excellent interpersonal and communication skills</li> <li>• Must be able to take initiative and be flexible</li> </ul> |             |                  |

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| <b>MECH 594/595/695 - Seminar</b>                                                                                                                                                                   | Instructor: | <b>K. Ahmadi</b> |
| <u>Special Skills or Other Requirements:</u>                                                                                                                                                        |             |                  |
| <ul style="list-style-type: none"> <li>• Candidate will coordinate seminars, introduce speakers, collect feedback, prepare the next term’s schedule, and maintain attendance spreadsheet</li> </ul> |             |                  |

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| <b>ASE 501 - Autonomous Aircraft Systems</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                |
| <b>Guidance, Navigation and Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Instructor: | <b>M. Bras</b> |
| <u>Special Skills or Other Requirements:</u> <ul style="list-style-type: none"> <li>• Strong background in aircraft dynamics, flight mechanics, and feedback control systems</li> <li>• Knowledge of guidance, navigation, and control concepts for autonomous aircraft systems, including stability augmentation, attitude control, and guidance/position control</li> <li>• Experience with mathematical modelling and simulation of dynamic systems using MATLAB/Simulink</li> <li>• Strong communication and organizational skills and a student-support mindset</li> <li>• Familiarity with state-space methods, linearization, stability analysis, control-loop design, and basic estimation or sensor-fusion concepts is an asset</li> <li>• Previous experience with UAVs, autonomous systems, robotics, aerospace systems, or control-related research/projects is preferred</li> </ul> |             |                |

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| <b>ASE 502 - Advanced Electric and Hybrid Flight</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |
| <b>Propulsion Systems</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Instructor: | <b>TBD</b> |
| <u>Special Skills or Other Requirements:</u> <ul style="list-style-type: none"> <li>• Strong background in aircraft propulsion, thermodynamics, and aircraft performance</li> <li>• Knowledge of jet engines, gas turbines, and electrified or hybrid-electric aircraft propulsion systems</li> <li>• Ability to support students with engine cycle analysis, propulsion calculations, and performance assessment</li> <li>• Strong communication and organizational skills</li> <li>• Experience with MATLAB, Python, Excel, or similar tools for analysis and simulation is preferred</li> </ul> |             |            |