



THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science  
School of Engineering  
POSITIONS –TEACHING ASSISTANT (UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**APSC 169 – Fundamentals of Sustainable Engineering Design**

Theory and practice of sustainable engineering. Awareness and risk analysis of potential impacts on society and the environment over the lifecycle of engineering projects. Engineering design process, project lifecycle, and professional responsibility. Team-based design project.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

**TO APPLY FOR THIS POSITION:** Please complete online TA application form

**APPLICATION DEADLINE: April 30, 2024**

*Equity and diversity are essential to academic excellence. An open and diverse community fosters the inclusion of voices that have been underrepresented or discouraged. We encourage applications from members of groups that have been marginalized on any grounds enumerated under the B.C. Human Rights Code, including sex, sexual orientation, gender identity or expression, racialization, disability, political Policy #HR11 7 belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person.*



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**APSC 172 – Engineering Analysis I**

Functions, limits, differentiation, applications of derivatives, integration, applications of definite integrals.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**APSC 176 – Engineering Communication**

Written and oral presentations, formal and informal. Purpose, audience, content, format, and tone are studied, as are team-based report writings and presentations.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**APSC 179 – Linear Algebra for Engineers**

Systems of linear equations, Gaussian elimination, engineering application of linear algebra, matrix operations, special matrices, determinants, vector space, orthogonality, eigenvalues and eigenvectors, linear transformation.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**APSC 180 – STATICS**

Force vectors, Cartesian coordinate system, free body diagram, dot and cross products, forces equilibrium of particles, force and moment equilibrium of rigid bodies, analysis of trusses, frames and machines, friction, wedges, pulleys, and belts.  
Applications of linear algebra in statics.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections under the supervision of the course instructor.

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**APSC 182 – Matter and Energy I**

Thermometry, states of matter and phase change, ideal and real gases, 1<sup>st</sup> law of thermodynamics, 2<sup>nd</sup> law of thermodynamics, liquids, solutions, solid crystals, atomic structures and bonding.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**APSC 246 – SYSTEM DYNAMICS**

Introduction to the Fourier series. Linear time invariant system, impulse response function, operator, convolution, system characterization, complex numbers, solution of linear ordinary differential equations, Laplace transform and its applications, transfer function, frequency response, solution to system of linear differential equations. Fourier series and transform.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**APSC 248 – ENGINEERING ANALYSIS III**

Multivariable functions, Lagrange multipliers; line integrals, surface integrals, volume integrals; divergence, curl, gradient; divergence and Stokes' theorems; engineering applications of vector field theory. Introduction to partial differential equations.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**APSC 252 – THERMODYNAMICS**

First and second laws of thermodynamics. Applications to simple thermodynamic processes and cycles. Introduction to heat transfer modes.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections under the supervision of the course instructor.

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**APSC 254 – Instrumentation and Data Analysis**

Data acquisition, sensors, instrumentation, measurement techniques and their limitations, experimental design, and data analysis; statistics, basic probability; application of statistics to data analysis.

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**APSC 256 – Numerical Methods for Analysis**

Partial differential equations, and numerical methods. Engineering applications to the design and analysis of networks, structures, and hydraulic systems.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**APSC 259 – Materials Science I**

Atomic bonding, crystallographic characteristics of materials, stress-strain curve, strengthening mechanisms, failure of materials, Eutectic and Eutectoid phase transformations, Fe-C phase diagram, composite materials, corrosion, electrical properties of materials.

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**APSC 501 – Professional Communication for Engineering Leaders**

Advanced workplace communication. Audience and purpose. Proposals and reports. Equity and diversity. Social media. Oral presentations (face-to-face and video conferencing) and visual aids. Listening skills.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**CMPE 201 – Computing for Science, Engineering, and Technology**

Candidates must have experience in computing systems and be comfortable marking essays and projects.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

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**ENGR 303 / MANF 470 – Engineering Project Analysis / Production System  
Management III**

Project management including initiating, planning, executing, controlling, and closing engineering projects. Managing the scope, costs, schedule, risks, and human resources in engineering projects.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking and lecture support under the supervision of the course instructor.

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**ENGR 310 – Fluid Mechanics II**

Differential conservation, equations and solutions, boundary layers, compressible flows, and introduction to turbomachinery.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**ENGR 325 – Civil Engineering Materials**

Structures and properties of common materials: aggregates, Portland cement, concrete, asphalt, timber, composites, and metals.  
Relationship between materials structures and mechanical properties.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 327 – Reinforced Concrete Design I**

Analysis of reinforced concrete members subjected to flexure, shear, and combined bending and axial forces. Design of one-way slabs, beams, and short columns. Serviceability analysis. Bond and anchorage.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab or tutorial sections under the supervision of the course

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**ENGR 341 – Engineering Hydrology**

Hydrologic processes – weather, precipitation, infiltration, evaporation, snowmelt and runoff generation. Emphasis on quantitative techniques including: hydrograph analysis, reservoir and channel routing, statistical methods and design floods, hydrologic modelling.

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**ENGR 342 – Open Channel Flow**

Channel characteristics, flow classification, specific energy and momentum, uniform flow, critical flow, hydraulic jump, flow control structures, channel design, unsteady flow, contaminant transport.

**Start Date:** September 2, 2024

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**APPLICATION DEADLINE: April 30, 2024**

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science  
School of Engineering  
POSITIONS – TEACHING ASSISTANT (UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 347 – Environmental Engineering**  
Air, water, environmental pollutants, and treatment design concepts.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 350 – Linear Circuit Theory**

Transient and steady-state analysis of linear circuits, Laplace transform analysis, mutual inductance and ideal transformers, frequency response and Bode plots, passive and active filters, introduction to synthesis of passive networks, two-port network models for linear systems, and circuit simulation.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 351 – Microelectronics I**

Signals and amplifier fundamentals, the operational amplifier, diodes, metal-oxide-semiconductor field effect transistor amplifier circuits, and bipolar junction transistor amplifier circuits.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections or marking under the supervision of the course instructor.

**Number of positions available:** 1 position

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**ENGR 353 – Semiconductor Devices**

Semiconductor materials, carrier transport phenomena, P-N diode, metal-semiconductor junction, light-emitting diode, semiconductor lasers and photodiodes, bipolar junction transistors, MOSFET, and other semiconductor devices.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 359 – Microcomputer Engineering**

Microcomputer architecture, number representation, assembly language, parallel and serial input/output, interrupts, memory, peripherals.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections or marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 360 – Engineering Probability and Statistics**

Set theory, conditional probability, distribution function, functions of random variables, central limit theorem, sample distributions, confidence intervals, elements of parameter estimation and hypothesis testing, testing the fit of distribution. Applications of probability and statistics in engineering.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 376 – Materials Science II**

Review comprehensive study of phase diagrams, phase transformations, TTT diagrams, heat treatment, ferrous and nonferrous alloys, composite and concrete materials, and materials selection.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**ENGR 381 – Kinematics and Dynamics of Machinery**

The design, analysis, and synthesis of mechanisms, linkages, cams, and gear trains: dynamic force analysis; balancing of rotating and reciprocating masses.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections under the supervision of the course instructor.

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**ENGR 387 – Vibration of Mechanical Systems**

Vibration of mechanical systems. Single and multiple degree of freedom systems. Undamped, damped vibrations. Forced vibrations and resonance. Modal analysis, modelling vibrating systems. Spectral analysis. Measurement and control of vibrating mechanical systems.

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**ENGR 401 – Bioinstrumentation**

Bioinstruments used for tracking vitals, diagnosis, and treatment of disease in the vascular, muscular, nervous, and respiratory systems. Introduction to the fundamentals of each body system, electrical safety, signal acquisition, biosensors, transducers, amplifiers, and analysis of human physiological measurements. Hands on experience with sensors, biomedical devices, and design through labs.

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**ENGR 408 – Energy System Transition**

GHG emission reductions, examination of the sources and use of energy, practical potential transition strategies.

**Start Date:** September 2, 2024  
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**ENGR 409 / APSC 509 – Construction Supply Chain Digitalization and Informatics**

Lean construction; logistics optimization; n-dimensional Building Information Modeling (nD BIM); Internet of Things and Construction 4.0 technologies; new business models; digital fabrication and platform-based construction.

**Start Date: September 2, 2024**

**End Date: December 20, 2024**

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**ENGR 418 – Applied Machine Learning for Engineers**

Fundamentals of machine learning, toolboxes in machine learning, supervised learning, unsupervised learning, applications of machine learning in various engineering disciplines.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 426 – Analysis of Indeterminate Structures**

Analysis of statically indeterminate structures using flexibility and stiffness methods. Linear and non-linear analysis, introduction to finite element method.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 427 – Reinforced Concrete Design II**

Design of reinforced concrete two-way slabs, slender columns, footings, and walls. Design for torsion.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 428/528 – Earthquake Engineering**

Strong ground motion; single-degree-of-freedom systems; earthquake response of linear and inelastic systems; subspace iteration; multi-degree-of-freedom systems; earthquake response and design; building design consideration

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 432 – Infrastructure Management II**

Impact of climate change, integrated asset management, resilient infrastructure, condition assessment and performance modeling, in-service monitoring and risk-based evaluation, life cycle cost and benefits analysis, prioritization and optimization, advanced modelling and GIS implementation.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 435 – Transportation Systems Engineering**

Applicants must have background in transportation.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 436 / 536 –Transportation Planning and Sustainable Land Use and  
Transportation**

Processes and techniques to facilitate properly integrated land use and transport systems, including: survey and data techniques; trip generation; trip distribution; modal choice; trip assignment; development traffic impact assessment; sustainable transportation strategies; and vulnerable road users.

Principles, data, and economics pertaining to the planning, design, and management of sustainable community land use and transportation systems.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science  
School of Engineering  
POSITIONS – TEACHING ASSISTANT (UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 438 – Rock Mechanics and Rock Engineering**

Mechanical properties of intact rock. Rock mass properties and classifications. Structural mapping and stereonet. Rock and rock mass strength criteria. Stresses in rock masses. Rock slope stability analysis. Empirical, analytical, and numerical analysis techniques for underground excavations. Rock support and stabilization.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections or marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**ENGR 440 – Foundation Engineering**

Empirical and analytical approaches for foundation engineering. Topics include site investigation, lateral earth pressure, ground improvement, design of shallow and deep foundations, and retaining structures.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections or marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 444 – Solid Waste Engineering**

Applications of engineering principles and practices to land disposal of hazardous and non-hazardous wastes.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**ENGR 447 – Design of Processes for Water and Wastewater Treatment**

Theory and design of fundamental physical, chemical, and biological unit operations for drinking water and municipal wastewater treatment. The design principles of coagulation, flocculation, sedimentation, filtration, biological treatment, solid handling, disinfection, and advanced treatment processes are presented.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial sections or marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 450 – Clinical Engineering**

Applicants must have background in biomedical engineering.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**ENGR 458/558 – Power Electronics**

Applications and roles of power electronics, power semiconductor devices, diode rectifiers, phase-controlled rectifiers, DC-DC converters, DC-AC converters, resonant converters. Examples drawn from residential and industrial applications.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 466 – Introduction to VLSI Systems**

The chip design process using VLSI design styles in CMOS technology. Data path, control and register file design and layout. Clocking schemes, flip-flop and latch-based design. Design project using CAD tools.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 468 – Advanced Digital System Design**

Design flows, system-on-chip design practices, timing, clock domains, high-speed data links, intellectual property reuse and platform-based design, application specific computing, ASIC and FPGA technologies, and hardware/software co-design.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 472/572 – Fibre Optics and Photonics**

Introduction to fibre optic transmission, single-mode and multimode fibre optics, dispersion and absorption design criteria, semiconductor diode lasers, LEDs, modulators, pn and p-i-n receivers, point-to-point and network implementations of fibre optic networks and integrated photonic systems.

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**ENGR 473/574 – Antennas and Propagation**

Wave propagation models, radiation patterns, directivity and gain, radiation resistance, Friis transmission equation, reciprocity, dipole antennas, image theory, loop antennas, uniform and non-uniform antenna arrays, broadband antennas, aperture antennas.

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**ENGR 476 – Mechanics of Materials II**

Bending of curved beams; bending of beams with asymmetric cross-sections; shear flow and centre; review of beam deflections; column buckling; Castigliano's theorem; statically indeterminate beams, frames, and rings; Torsion of noncircular members.

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**ENGR 480 – Modern Control**

State-space modelling and design. Review of linear and matrix algebra, highlights of classical control theory, state-space modelling, continuous and discrete state equations, stability, controllability and observability, design of feedback systems.

**Start Date:** September 2, 2024

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**ENGR 485 – Heating, Ventilating, and Air Conditioning**

Properties of moist air, air conditioning systems, heat transmission in building systems, heating and cooling load, refrigeration, pumps and piping design, fans and building air distribution.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**ENGR 492/582 – Finite Element Methods**

Finite Element Discretization, Direct Stiffness Method, Numerical Solution of Large Deformations, Formulation of Finite Elements, Auxiliary Equations, Thermomechanical Analysis, Computer Implementation of the Finite Element Methods, Case Studies in Material Forming and Multi-Physics.

**Start Date:** September 2, 2024  
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**ENGR 493 – Introduction to Aerodynamics and Aircraft Design**

Aircraft conceptual design: methods for estimating aircraft weight, fuel load, lift, thrust, airfoil and wing specification, engine selection and sizing, and structural loads. Introductory aerodynamics of airfoils and wings.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**ENGR 499 – Engineering Capstone Design Project**

A capstone design project in response to an actual engineering problem. The project can be multi-disciplinary or in a specialized area of engineering. Students are required to submit a comprehensive project report and deliver a formal presentation.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 502 – Technical Communication for Engineering Research**

Strategies for clear, effective, and ethical technical communication (both written and oral). Tools and formatting for graphics, technical reports, proposals, journal papers, theses.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

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**ENGR 518 – Applied Machine Learning for Engineers**

Fundamentals of machine learning, toolboxes in machine learning, supervised learning, unsupervised learning, applications of machine learning in various engineering disciplines.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking and lecture support under the supervision of the course instructor. **Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**ENGR 533 – Construction Engineering and Management**

Management of the firm: strategic planning, designing, construction, productivity management, and project closure. Project delivery systems: traditional, construction management, and turnkey. Estimating, bidding, and bonding. Project control tools and procedures. Safety and quality control. Project Management.

**Start Date:** September 2, 2024  
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**Faculty of Applied Science  
School of Engineering  
POSITIONS – TEACHING ASSISTANT (UTA or GTA)**

The School of Engineering is inviting applicants to apply for an Undergrad and/or Graduate Teaching Assistant position for the following course:

**ENGR 580 – Modern Control**

Review of linear and matrix algebra, highlights of classical control theory; state-space modelling, continuous and discrete state equations, stability, controllability and observability; design of feedback systems.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections or marking under the supervision of the course instructor. **Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**IMTC 505 – Fundamentals of Immersive Technologies**

Immersive technology principles; design of AR/MR/VR platforms; immersive interaction techniques; 3D user interfaces; custom XR app design; applications to mobile and wearable devices.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**IMTC 506 – User-Centered Immersive Design**

Immersive design; user-centered and customer-oriented design; project-based learning; project conceptualization; industry- and community-sourced applications of immersive technologies.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**MANF 330 – Manufacturing Engineering Project I**

Project-based design and optimization of manufacturing processes (Casting, bulk deformation, sheet metal, polymer), metrology, measuring cutting forces in machining, CNC machining optimization.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct labs and marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**MANF 370 – Production Systems Management II**

Functional area of production and operations management. Decision-making, capacity planning, aggregate planning, inventory management, distribution planning, materials requirements planning and quality control.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct marking under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

**Eligibility:** To be eligible to apply, applicants must be enrolled in a full-time undergraduate or graduate degree program at UBC Okanagan. Successful Candidates are required to be in Canada for the duration of the position. (Note: a full-time student is defined as having a minimum of 24 credits for the 2024 winter session).

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**MANF 377 – Manufacturing Processes I**

Metrology, metal forming processes, plastic deformation, rolling, forging, drawing, extrusion, sheet metal forming. Machining processes and machine tools, turning, milling, drilling, grinding. Metal fabrication, welding, casting.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct tutorial or lab sections under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**MANF 386 – Industrial Automation**

Linear system modelling, block diagrams, transient response, root locus, frequency response, Bode plots, and controller design. Principles and components of industrial automation systems, programmable logic controllers (PLCs), controller programming languages.

**Start Date:** September 2, 2024  
**End Date:** December 20, 2024

**Description of Duties:** The successful candidate will conduct lab sections under the supervision of the course instructor.

**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**MANF 416/516 – CAD/CAM/CAE / Advanced Manufacturing**

CNC machining, Rapid prototyping, G-code, Computer Aided: Design, Manufacturing and Engineering, parametric design and analysis for optimization.

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**MANF 455 – Factory Planning**

Planning of resources, layout and logistics for manufacturing plants; hands-on training on modular production and cyber-physical manufacturing systems in a laboratory scale, virtual manufacturing environments and factory automation. Factory-scale automation for production planning and control, manufacturing execution systems, industrial communication, product tracking, database management; hands-on training on cyber-physical manufacturing systems in a laboratory scale, virtual manufacturing environments.

**Start Date:** September 2, 2024  
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**MANF 460/560 – Supply Chain Tactics and Strategies**

Key concepts and techniques to analyze, manage and improve supply chain processes for different industries and markets. Emphasis on assessment of supply chain performance to improve competitiveness.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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**Wage for this position:** As per the BCGEU Collective Agreement UTA or GTA.

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**MANF 555 – Factory Planning**

Factory-scale automation for production planning and control, manufacturing execution systems, industrial communication, product tracking, database management; hands-on training on cyber-physical manufacturing systems in a laboratory scale, virtual manufacturing environments.

**Start Date:** September 2, 2024

**End Date:** December 20, 2024

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