



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 171 – Engineering Drawing and CAD/CAM

Orthographic projections, axonometric and perspective projections, dimensioning and tolerances, computer-aided design and modelling, introduction to rapid prototyping, team-based design project.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 172 – Engineering Analysis I

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

Start Date: January 6, 2025

End Date: April 25, 2025

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

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APSC 173 – Engineering Analysis II

Integrals and transcendental functions, techniques of integration, applications of integration, polar coordinates, infinite sequences and series, vectors and the geometry of space, and partial derivatives.

Start Date: January 6, 2025

End Date: April 25, 2025

Description of Duties: The successful candidate will conduct tutorial sections 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:

APSC 177 – Engineering Communication and Instrumentation

Computer systems, software development, operating systems, compilers, programming in a high-level language, selection and loop structures, functions, arrays, pointers, files, data acquisition, solving engineering problems with computer programs.

Start Date: January 6, 2025

End Date: April 25, 2025

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

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APSC 178 – Electricity, Magnetism and Waves

Electric fields and forces, electric potential, capacitance, DC circuits, magnetic fields and forces, Faraday's law, inductance, waves, light, and optics.

Start Date: January 6, 2025

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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:

APSC 181 – Dynamics

Kinematics of particles, curvilinear motion, normal-tangential, polar, cylindrical coordinates, force and acceleration, equation of motions, work and energy, conservation of energy. Introduction to rigid body dynamics.

Start Date: January 6, 2025

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APSC 183 – Matter and Energy II

Chemical equilibrium, reactions in gas phase and in aqueous solutions, acid-base and redox reactions, kinetics of chemical reactions, thermochemistry, electrochemistry, and organic chemistry.

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**Faculty of Applied Science
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POSITIONS – TEACHING ASSISTANT MARKER
(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 201 – TECHNICAL COMMUNICATION

Written and oral communication in engineering. Report preparation, business correspondence, and oral presentation of technical material

Start Date: January 6, 2025

End Date: April 25, 2025

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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:

APSC 253 – FLUID MECHANICS I

Fluid properties and fluid statics; principles of conservation of mass, momentum, and energy; laminar and turbulent flow; dimensional analysis; pipe flow; valves and fittings, flow measurements.

Start Date: January 6, 2025

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APSC 255 – ELECTRICAL CIRCUITS AND POWER

Circuit analysis techniques for steady-state AC and DC circuits containing independent and dependent voltage and current sources, resistance, capacitance and inductance. DC maximum power transfer. AC power including real, reactive, apparent and complex power and power factor. AC power analysis using phasors. Three-phase AC power systems.

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APSC 258 – Applications of Engineering Design

Principles of engineering design, applied to a team-based design project. Use of probability, programming, decision making, economic principles, systems theory, and technical communication in design projects.

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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:

APSC 260 – Mechanics of Materials I

Concepts of stress and strain. Axial, shear forces and bending moment diagrams for statically determinate structures, torsion in shafts. Axial and shear stresses and deformations. Transformation of plane stress, Mohr's circle.

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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:

APSC 261 – Theory of Structures

Type of structures and structural elements. Loads and load path. Design objectives, philosophy and limit states. Static determinacy and stability. Analysis of statically determinate structures. Deflection using energy and geometrical methods. Influence lines.

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**Faculty of Applied Science
School of Engineering
POSITIONS – LAB 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 262 – Digital Logic Design

Logic design methods, hardware description language (HDL), number representation and arithmetic circuits, combinational circuits, flip-flops, registers, programmable logic devices (FPGAs), counters, finite state machines, digital system designs.

Start Date: January 6, 2025

End Date: April 25, 2025

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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:

APSC 270 – Signals and Communication Systems

Fourier series and Fourier transform analysis of signals; sampling theorem; amplitude; phase; and frequency modulation; baseband digital transmission; pulse code modulation and quantization; Nyquist pulses; inter-symbol interference..

Start Date: January 6, 2025

End Date: April 25, 2025

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

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APSC 278 – Electric and Magnetic Fields

Review of vector calculus and coordinate systems; electrostatic fields; electric dipoles and polarization; magnetostatics fields; magnetic dipoles and magnetization; boundary conditions; electromagnetic induction; Maxwell's equations.

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APSC 504 – Solar Cell Engineering

Climate change and renewable energy sources, operational principles of solar cells and review of leading technologies, deposition and characterization tools for thin film layers, environmental and economic considerations of solar energy, and latest developments in academic research.

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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:

APSC 519 – System Identification

Identification of dynamical systems by considering input signals, sensor measurements, noise, and disturbance, as well as using parameter estimation, model selection and validation, and practical considerations

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CMPE 246 – Computer Engineering Design Studio

Embedded systems programming, App development for Internet of Thing applications, Microprocessor Programming.

Start Date: January 6, 2025

End Date: April 25, 2025

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ENGR 305 – Engineering Economic Analysis

Cost concepts, accounting, time value of money; depreciation and taxes; public sector projects; economic evaluation techniques; handling uncertainty; sustainability in economic evaluation; societal context; infrastructure management needs; project impacts, mitigating risk. Case studies

Start Date: January 6, 2025

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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 315 – Systems and Control

Dynamic systems, linear systems, control concepts, block diagrams, transient response, root locus, frequency response, Bode and Nyquist plots, and controller design.

Start Date: January 6, 2025

End Date: April 25, 2025

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.

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

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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 320 – Electromechanical Devices

DC and AC magnetic circuits, transformers, DC machines, principles of electromagnetic devices, synchronous machines, induction motors, and brushless DC motors

Start Date: January 6, 2025

End Date: April 25, 2025

Description of Duties: The successful candidate will conduct lab or 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).

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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 330 – Reliability and Risk Analysis for Civil Engineering

Applied probability and simulation for civil engineering infrastructure. Methods for probabilistic risk and reliability analysis.
Risk-based decision making.

Start Date: January 6, 2025

End Date: April 25, 2025

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 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 331 – Infrastructure Management I

Introduction to asset management, municipal infrastructure systems, performance and prioritization measures, data management, life cycle costing, decision support tools, integrated approach.

Start Date: January 6, 2025

End Date: April 25, 2025

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.

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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**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 332 – Surveying and GIS Analysis

Theory and application methods for measuring and representing objects of interest on, below, and over the earth's surface, and for analyzing data to meet engineering design and operational objectives driven by socio-economic or environmental concerns of natural and engineered systems.

Start Date: January 6, 2025
End Date: April 25, 2025

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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**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 335 – Transportation Engineering

Analysis, planning, design, and operation of transportation systems, including: governance, economics, land use, transport modes, users, roads, freeways, end-of-trip facilities, public transit, and intersection controls.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 340 – Soil Mechanics

Geological processes, soil classification, principle of effective stress, seepage analysis, shear strength, soil compaction, consolidation, and slope stability analysis.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 352 – Microelectronics II

Building blocks of integrated-circuit amplifiers; differential multistage amplifiers; frequency response; feedback; output stages and power amplifiers; and operational amplifier circuitry

Start Date: January 6, 2025

End Date: April 25, 2025

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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THE UNIVERSITY OF BRITISH COLUMBIA

**Faculty of Applied Science
School of Engineering
POSITIONS – TEACHING ASSISTANT MARKER
(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 362 – Digital Signal Processing

Discrete-time signals and systems, difference equations, sampling and aliasing, decimation and interpolation, quantization errors, z-transform, discrete Fourier transform, fast Fourier transform, implementation of discrete-time systems, finite and infinite impulse response filter design

Start Date: January 6, 2025
End Date: April 25, 2025

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).

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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 375 – Energy System Design

Primary energy sources and carriers. Energy conversion. Analysis of thermal systems. Reacting systems and combustion. Thermal systems design including steam power plants, gas turbines, internal combustion engines, and refrigeration systems.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 378 – Electromagnetics for Engineers

Maxwell's equations, time harmonic fields, plane waves in media, polarization, Fresnel equations, transmission lines, scattering parameters, the Smith Chart, and waveguides.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 380 – Design of Machine Elements

Product design methodology; static and fatigue failure theory; design/selection of components including shafts, springs, bearings, gears, brakes, and clutches; design of bolted joints, power screws, and welds; design evaluation and optimization.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 385 – Heat Transfer Applications

Steady and transient conduction heat transfer, radiation heat transfer, convection heat transfer, introduction to heat exchanger.

Start Date: January 6, 2025

End Date: April 25, 2025

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 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 411/511 – Technology Innovation for Engineers

Engineering and innovation, business models, customer development, intellectual property, product development, customer validation, hypothesis testing, company positioning

Start Date: January 6, 2025

End Date: April 25, 2025

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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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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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 413 – Law and Ethics for Engineers

Ethical theories and their application. The Canadian legal system. Companies, partnerships, independent contractors. Contract documents, specifications, liability, torts and liens. Intellectual property. Agency; evidence; role of an expert witness. Employment law. Professional Governance Act, Code of Ethics, consultation and engagement with Indigenous communities.

Start Date: January 6, 2025
End Date: April 25, 2025

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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**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 424– Smart Cities

Smart city concept, smart city standardization, smart grid and energy management, Internet of Things and cloud computing for smart city, smart city lighting, intelligent transportation, technology enhanced infrastructure, water solutions, smart buildings and technology, data analytics in smart cities.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 425/522– Design of Steel and Timber Structures

Introduction to limit states design of steel and timber structures: material properties, design of tension and compression members, beams, columns, and connections.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**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 429/529 – Rehabilitation of Concrete Structures

Concrete damage and deterioration mechanisms, assessment and instrumentation; repair and strengthening materials and techniques; design of structural strengthening systems

Start Date: January 6, 2025

End Date: April 25, 2025

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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**Faculty of Applied Science
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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 433 – Construction Engineering and Management

Analysis, design, and operation of transport systems that support our urban and rural communities, including: traffic studies and field surveys; capacity and level of service analysis; simulation and optimization of networks; transportation demand management; and CAD optimization of horizontal and vertical corridor alignments.

Start Date: January 6, 2025
End Date: April 25, 2025

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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School of Engineering
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(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 441 – Advanced Water Treatment Process

Theory and design of advanced drinking water treatment processes used for challenging source water conditions including advanced oxidation, membrane filtration, ultraviolet disinfection, and adsorption processes. Discussion of removal of emerging contaminants (e.g. pharmaceuticals), regulated and unregulated disinfection by-products, and current issues in potable water treatment and quality.

Start Date: January 6, 2025

End Date: April 25, 2025

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

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(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 445 – Design of Water and Wastewater Conveyance Systems

Identification and evaluation of design solutions for providing a community with adequate water supply, collecting and disposing of stormwater and sewage, and managing excess stormwater flow.

Start Date: January 6, 2025

End Date: April 25, 2025

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).

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

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 453 – Internet of Things

Sensing, actuation, sampling, analog-to-digital and digital-to-analog conversion, voice over IP, video codecs, audio codecs, multimedia communication protocols for IoT, wireless communication protocols for IoT.

Start Date: January 6, 2025

End Date: April 25, 2025

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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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 454 – Motor Drive Systems

Three-phase AC/DC PWM inverter, converter modulation techniques, abc/qd reference frame theory, brushed DC machine drives, induction motor drives, permanent magnet AC machines, brushless dc motors and drive circuits.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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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 460 – Tools and Applications in Environmental and Engineering Microbiology

Fundamentals of environmental microbiology and DNA sequencing technologies including microbial detection with molecular methods, bioinformatics and computational analysis.

Start Date: January 6, 2025

End Date: April 25, 2025

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 469/563 – Polymer Engineering

Introduction to polymer science and technology, molecular structure of polymers, polymer synthesis, structure-property relationship in polymers, physical properties of polymers, reinforced polymers, polymer composites and nanocomposites, polymer characterization, polymer processing, and forming.

Start Date: January 6, 2025
End Date: April 25, 2025

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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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 470 – Microwave Engineering

Review of electromagnetic principles, waveguides, transmission lines, impedance matching, Smith charts, network characterization, and microwave engineering applications.

Start Date: January 6, 2025
End Date: April 25, 2025

Description of Duties: The successful candidate will conduct lab or 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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**Faculty of Applied Science
School of Engineering
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(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 474 – Analog Integrated Circuits

Design and analysis of analog integrated circuits with emphasis on CMOS technology. MOS device physics and models, processing technology and layout, differential amplifiers, current mirrors, noise, feedback, opamp design and compensation, two-stage CMOS opamp design, switched-capacitor filters.

Start Date: January 6, 2025
End Date: April 25, 2025

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

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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 475 – Materials Selection and Design

Analysis, design, and operation of transport systems that support our urban and rural communities, including: traffic studies and field surveys; capacity and level of service analysis; simulation and optimization of networks; transportation demand management; and CAD optimization of horizontal and vertical corridor alignment

Start Date: January 6, 2025
End Date: April 25, 2025

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 478 – Alternate Energy Systems

Description of alternative sources of energy, electric vehicles, thermosolar energy, generation of electricity by photovoltaic effect, wind power energy, hydropower, geothermal, nuclear power, power plants with fuel cells, aspects of hydrogen as fuels, fuel from biomass, energy storage parameters, integration of alternative sources of energy.

Start Date: January 6, 2025
End Date: April 25, 2025

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

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**Faculty of Applied Science
School of Engineering
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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 482 – Biomedical Engineering I

Introduction to the microcirculation; gas exchange in organs, including diffusion, perfusion and ventilation; surface energy in biological systems; principles of hemodynamics including vascular resistance and flow regimes at different levels of organs, tissues and cells; principles of tissue mechanics; introduction to tissue engineering; introduction to medical devices design and development.

Start Date: January 6, 2025

End Date: April, 25 2025

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

ENGR 487/587 – Digital Control

Digital control theory and a brief review of classical control and its relationship to discrete systems. Discrete time systems, sampling, z-transform, pulse transfer function, stability in z-domain, pole-placement control design and state estimation, discrete linear quadratic optimal control, introduction to system identification and Kalman filter.

Start Date: January 6, 2025
End Date: April 25, 2025

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

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**Faculty of Applied Science
School of Engineering
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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 491 – Computational Fluid Dynamics

Computational fluid dynamics theory and methods for the numerical simulation of heat and fluid flow. Governing equations, meshing strategies and mesh requirements, finite difference methods, finite volume methods, solution of algebraic systems of equations, compressible flows, turbulence modelling.

Start Date: January 6, 2025

End Date: April 25, 2025

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

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**Faculty of Applied Science
School of Engineering
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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 494 – Autonomous Vehicle Technology

Autonomous navigation: perception, localization and mapping, motion planning, and motion control; and applications to unmanned aerial vehicles (UAVs), automated vehicles and self-driving cars..

Start Date: January 6, 2025

End Date: April 25, 2025

Description of Duties: The successful candidate will conduct lab 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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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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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 495/519 – Tissue Engineering

Fundamentals of cell biology; extracellular matrix, receptors, and cell-cell and cell-matrix interactions at both the theoretical and experimental levels; effects of physical, chemical, and electrical stimuli on cell function; tissue structure and function and the clinical need for tissue repair; scaffold design and processing for tissue engineering.

Start Date: January 6, 2025
End Date: April 25, 2025

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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**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 498P/598C - Special Topics in Engineering – Biophotics

Start Date: January 6, 2025
End Date: April 25, 2025

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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**Faculty of Applied Science
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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 498Q/598Q - Special Topics in Engineering – Communications Laboratory

Start Date: January 6, 2025
End Date: April 25, 2025

Description of Duties: The successful candidate will conduct tutorial sessions 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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**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 498R - Special Topics in Engineering – Applied Machine Vision for Engineers

Start Date: January 6, 2025
End Date: April 25, 2025

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 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: January 6, 2025

End Date: April 25, 2025

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

ENGR 501/CMPE 401 – Deep and Reinforcement Learning for Engineers

Foundations of neural networks and deep learning; techniques to improve neural networks; convolutional neural networks recurrent neural networks and their applications; reinforcement learning: basics, Q-learning, actor-critic algorithm; practical engineering applications of deep and reinforcement learning.

Start Date: January 6, 2025
End Date: April 25, 2025

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

ENGR 512 – Signals, Systems, and Inference

Review of signals and systems basics; LTI state-space methods; probabilistic models and estimation of random variable; hypothesis testing rules; random processes and power spectral density; signal estimation based on linear minimum mean square error principle; signal detection in i.i.d. Gaussian noise and colored noise.

Start Date: January 6, 2025

End Date: April 25, 2025

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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 523 – Seismic Design and Buildings

Review of structural dynamics and response spectra; seismic design of steel and masonry buildings; seismic design of reinforced concrete structures; design using simplified code procedures and computer tools.

Start Date: January 6, 2025

End Date: April 25, 2025

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).

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.



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 532 – Project Planning and Control

Project planning and alignment, project control standards and deliverables, project selection process, project definition rating index, and risk management. Analytical hierarchical processes, and Monte-Carlo simulation in scheduling and costing.

Start Date: January 6, 2025

End Date: April 25, 2025

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.

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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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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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 535 – Autonomous Vehicle Technology

Autonomous navigation: perception, localization and mapping, motion planning, and motion control; and applications to unmanned aerial vehicles (UAVs), automated vehicles and self-driving cars.

Start Date: January 6, 2025
End Date: April 25, 2025

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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**Faculty of Applied Science
School of Engineering
POSITIONS –TEACHING ASSISTANT
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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 598R - Special Topics in Engineering – Design of Transportation Systems

Start Date: January 6, 2025
End Date: April 25, 2025

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:

IMTC 507 – Immersive Technology Design Studio

Introduction to production systems management and operations. Focus on the impact of operations in increasing productivity, reducing waste in manufacturing facilities.

Start Date: January 6, 2025

End Date: April 25, 2025

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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**Faculty of Applied Science
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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:

MANF 270 – Production Systems I

Introduction to production systems management and operations. Focus on the impact of operations in increasing productivity, reducing waste in manufacturing facilities.

Start Date: January 6, 2025

End Date: April 25, 2025

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 277 – Fundamentals of Design for Manufacturing

Engineering drawing for manufacturing, part and process drawings, quality control, metrology. Design for manufacturing and assembly. Integrated Manufacturing Systems.

Start Date: January 6, 2025

End Date: April 25, 2025

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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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

Start Date: January 6, 2025

End Date: April 25, 2025

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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MANF 378 – Advanced Manufacturing

Practical and theoretical applications of life cycle thinking in engineering projects, products, and processes. Understand international standards and methods in life cycle assessment (LCA), life cycle costing (LCC). Interpret and provide critical feedback on LCA/LCC studies and analyze claims on sustainability.

Start Date: January 6, 2025

End Date: April 25, 2025

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:

MANF 450 – Life Cycle Analysis and Sustainability

Practical and theoretical applications of life cycle thinking in engineering projects, products, and processes. Understand international standards and methods in life cycle assessment (LCA), life cycle costing (LCC). Interpret and provide critical feedback on LCA/LCC studies and analyze claims on sustainability.

Start Date: January 6, 2025
End Date: April 25, 2025

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

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MANF 465 – Digital Enterprise

Systems integration and data analytics for engineering processes in a digital enterprise with industrial automation systems, production and operation, information fusion, performance monitoring and learning, and software and simulation platforms for manufacturing applications.

Start Date: January 6, 2025

End Date: April 25, 2025

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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