



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 5, 2023

End Date: December 22, 2023

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 2023 winter session).

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

APPLICATION DEADLINE: April 30, 2023

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 5, 2023
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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 5, 2023

End Date: December 22, 2023

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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.

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End Date: December 22, 2023

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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 5, 2023
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APSC 182 – Matter and Energy I

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

Start Date: September 5, 2023

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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.

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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.

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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.

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End Date: December 22, 2023

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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.

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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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MANF 230 – Manufacturing Engineering Laboratory

Fundamentals of theory, operations and operational constraints, process simulation, equipment in conventional manufacturing processes, metrology and CAM. Casting, heat treatment, bulk deformation (i.e. rolling, extrusion, drawing), sheet metal, polymer processing, joining, conventional machining, non-conventional machining, and CNC machining. Experiments in metrology, process characterization and simulation, machining, GandM Codes, CNC machining.

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ENGR 303 – Engineering Project Management

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

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ENGR 310 – Fluid Mechanics II

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

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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.

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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.

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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.

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ENGR 347 – Environmental Engineering

Air, water, environmental pollutants, and treatment design concepts.

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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 5, 2023
End Date: December 22, 2023

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 2023 winter session).

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

APPLICATION DEADLINE: April 30, 2023

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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 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 5, 2023

End Date: December 22, 2023

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 2023 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 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 5, 2023

End Date: December 22, 2023

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 2023 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 359 – Microcomputer Engineering

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

Start Date: September 5, 2023

End Date: December 22, 2023

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 2023 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 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 5, 2023
End Date: December 22, 2023

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 2023 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 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 5, 2023

End Date: December 22, 2023

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 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 5, 2023

End Date: December 22, 2023

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 2023 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 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 5, 2023

End Date: December 22, 2023

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 2023 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 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.

Start Date: September 5, 2023
End Date: December 22, 2023

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

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.

Start Date: September 5, 2023
End Date: December 22, 2023

Description of Duties: The successful candidate will conduct lab sections or 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 406 – Microelectromechanical Systems

Mechanisms, design, fabrication, and testing of microsensors, actuators, and Microelectromechanical systems (MEMS).

Start Date: September 5, 2023

End Date: December 22, 2023

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

ENGR 409 – Construction Supply Chain

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 5, 2023

End Date: December 22, 2023

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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**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 418/518 – 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 5, 2023

End Date: December 22, 2023

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 2023 winter session).

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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 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 5, 2023

End Date: December 22, 2023

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 2023 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 427 – Reinforced Concrete Design II

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

Start Date: September 5, 2023

End Date: December 22, 2023

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 2023 winter session).

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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 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 5, 2023

End Date: December 22, 2023

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 2023 winter session).

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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 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 5, 2023

End Date: December 22, 2023

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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 and 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 5, 2023
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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 436 and ENGR 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 5, 2023

End Date: December 22, 2023

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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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 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 5, 2023

End Date: December 22, 2023

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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POSITIONS – TEACHING ASSISTANT (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 5, 2023
End Date: December 22, 2023

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 2023 winter session).

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

APPLICATION DEADLINE: April 30, 2023

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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 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 5, 2023

End Date: December 22, 2023

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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**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 352/451 – 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: September 5, 2023

End Date: December 22, 2023

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 2023 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 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: September 5, 2023

End Date: December 22, 2023

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

ENGR 456 – Electrochemical Energy Storage Systems

Thermodynamics and kinetics of electrochemical reactions, rechargeable batteries, Li-ion batteries, anode and cathode materials, nanostructured materials for batteries, liquid-solid and solid-solid interfaces in batteries, next-generation Naion and Li-S batteries, supercapacitors, and hybrid Li-ion supercapacitors.

Start Date: September 5, 2023

End Date: December 22, 2023

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

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 5, 2023

End Date: December 22, 2023

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

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ENGR 461 – Digital Communications

Signal space concepts, baseband digital transmission on additive white Gaussian noise channel, optimum receiver design, transmission through bandlimited channels, coherent and non-coherent carrier modulations, elements of information theory, introduction to error control coding.

Start Date: September 5, 2023

End Date: December 22, 2023

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

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ENGR 465 – Digital Enterprise

Propagation path loss, shadowing, fading, Doppler spread, classification of wireless channels, modulations for wireless communications, diversity and equalization techniques for fading dispersive channels, multicarrier modulation, spread spectrum communications, cellular networks, practical wireless systems.

Start Date: September 5, 2023

End Date: December 22, 2023

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

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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 5, 2023

End Date: December 22, 2023

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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 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.

Start Date: September 5, 2023

End Date: December 22, 2023

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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.

Start Date: September 5, 2023
End Date: December 22, 2023

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ENGR 477 – Aircraft Propulsion

Propulsion requirements, effects of Mach number, altitude, and application; basic propeller theory; propeller, turboshaft, turbojet, turbofan; cycle analysis and optimization for gas turbine power plant; inter-relations between thermodynamic, aerodynamic and mechanical designs; selection of aeroengines; principles of rocket propulsion systems.

Start Date: September 5, 2023

End Date: December 22, 2023

Description of Duties: The successful candidate will conduct lab sections or 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 480 and ENGR 580–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 5, 2023

End Date: December 22, 2023

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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: September 5, 2023
End Date: December 22, 2023

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ENGR 484/584 – Heat and Mass Transfer

Heat exchanger design, heat transfer with phase change, radiation heat transfer, steady and transient mass diffusion, convective mass transfer, simultaneous heat and mass transfer.

Start Date: September 5, 2023

End Date: December 22, 2023

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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 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 5, 2023

End Date: December 22, 2023

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ENGR 486 and ENGR 586– Robot Modeling and Control

Spatial description and homogeneous transformations, manipulator kinematics (forward and inverse), Jacobian, motion trajectories. Manipulator dynamics, Lagrange-Euler and Newton-Euler formulation. Linear and nonlinear control, force control. Industrial robotic system and programming.

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ENGR 489/589 – Multicriteria Optimization and Design of Experiments

Multiple attribute decision making, multiple objective decision making/optimization, fuzzy optimization, design and analysis of physical and computer experiments, uncertainty modelling, sensitivity analysis, weighting methods, computational tools and applications in multi-disciplinary design.

Start Date: September 5, 2023

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ENGR 490 – Fluid Machinery

Principles and performance characteristics of turbomachinery, centrifugal and axial flow fans, compressors, pumps and turbines, and applications of dimensional analysis and similitude.

Start Date: September 5, 2023

End Date: December 22, 2023

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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: September 5, 2023
End Date: December 22, 2023

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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 496 – Aerospace Materials and Manufacturing Processes

Properties, behaviour, manufacturing, and advanced processes for materials used in aerospace applications. Materials include alloys, elastomers, composites, polymers, and ceramics. Special processes in the aerospace industry. Introduction to aerospace quality systems, inspection, and testing.

Start Date: September 5, 2023

End Date: December 22, 2023

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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**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 435– Road Safety Planning and Engineering

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: September 5, 2023

End Date: December 22, 2023

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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 5, 2023
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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 5, 2023

End Date: December 22, 2023

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School of Engineering
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ENGR 534 – Road Safety Planning and Engineering

Quantifying the link between built form (land use) and road safety levels; data extraction, stratification, and aggregation; micro and macro-level generalized linear regression modelling; and road safety applications.

Start Date: September 5, 2023
End Date: December 22, 2023

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ENGR 553 – Signal Estimation Theory

Estimation theory applied in particular to communications, signal processing, and wireless location applications. Cramer-Rao lower bound, minimum variance unbiased estimators, maximum likelihood estimators, least squares, Bayesian estimation, Kalman filters, and subspace methods.

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ENGR 564 – Fundamentals of Digital Communications

Pulse-amplitude modulation, M-ary modulation, spectral efficiency, Nyquist pulse shaping, sequence detection, optimal coherent and incoherent receiver design, equalization, adaptive equalizer, receiver synchronization.

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ENGR 581 – Mechatronics

Operating principles, analysis, modelling, and performance specification of sensors and actuators such as analog/digital transducers, electric motors, hydraulic actuators, and smart actuators. Analog and digital filtering techniques. Control techniques pertaining to actuators.

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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.

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End Date: December 22, 2023

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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.

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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.

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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.

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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.

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MANF 470 – Production Systems Management III

Modelling and analysis of manufacturing systems and assembly lines, operational contingencies, multiple-product manufacturing systems, scheduling theory and inventory systems.

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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.

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