

Part-Time Instructor

Posting #FAPT09-23

Department of Computer Science Faculty of Science and Engineering Part-Time, Term

The University of Northern British Columbia (UNBC) invites applications for part-time instructor positions in the Department of Computer Science for the Fall 2023 semester. Candidates that can contribute to more than one course will have priority.

CPSC 321-3 (Operating Systems)

This course introduces the fundamental concepts of operating systems. Topics include tasking and processes, process co-ordination and synchronization, scheduling and dispatch, physical and virtual memory organization, paging and segmentation, device management, file systems, and security and protection. Students study a simple operating system and have an opportunity to make modifications to it in laboratory exercises.

CPSC 340-3 Theory of Computation

This course examines regular expressions, deterministic and non-deterministic finite automata, context-free and other grammars, pushdown automata, Chomsky and Greibach normal forms. Chomsky hierarchy, pumping lemmas, Turing machines, undecidability, computability, recursive function theory, computational complexity, NP-hard and NP-complete problems.

CPSC 482/682-3 (Data Structures II)

This course considers the design and analysis of efficient data structures and algorithms including extensions of those studied in CPSC 200 and CPSC 281. Also considered are general techniques for building and analyzing algorithms (greedy, divide and conquer, dynamic programming) and topics from: amortized time estimates, complexity analysis, and NP completeness.

Our Commitment to Diversity and Employment Equity

The University of Northern British Columbia is fully committed to creating and maintaining an equitable, diverse, and inclusive environment that is accessible to all. We are devoted to ensuring a welcoming, safe, and inclusive campus free from harassment, bullying, and discrimination. This commitment is woven into our motto and mission. In the Dakelh language, UNBC's motto 'En Cha Huná translates to "he/she/they also live" and means respect for all living things. Through the respect for all living things, we are able to grow and learn better together, each bringing our own unique individual differences and contributions to inspire leaders for tomorrow by influencing the world today.

Employment equity requires that we remove barriers and overcome both direct and indirect discrimination. In this way, the pool of excellent candidates increases substantially. 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 belief, religion, marital or family status, age, and/or status as a First Nation, Metis, Inuit, or Indigenous person

About the University and its Community

Since its founding in 1990, the University of Northern British Columbia (UNBC) has emerged as one of Canada's best small research-intensive universities, with a passion for teaching, discovery, people, and the North. UNBC's excellence is derived from community-inspired research, hands-on learning, and alumni who are leading change around the world.

Since time immemorial, Indigenous peoples have walked gently on the diverse traditional territories where the University of Northern British Columbia community is grateful to live, work, learn, and play. We are committed to building and nurturing relationships with Indigenous peoples, we acknowledge their traditional lands, and we thank them for their hospitality. UNBC's largest campus in Prince George is located on the traditional unceded territory of the Lheidli T'enneh, in the spectacular landscape near the geographic centre of beautiful British Columbia.

UNBC's three regional campuses are located in Quesnel, Fort St. John, and Terrace. The South-Central campus in Quesnel is situated on the traditional territory of the Lhtako Dené (Red Bluff Band), Nazko, Lhoosk'uz Dené Nation (Kluskus Band), and Esdilagh First Nations (formerly Alexandria Band). Lhtako, Nazko, and Lhoosk'uz are Dakelh First Nations, and Esdilagh is a member of the Tsilhqot'in Nation. The Peace River-Liard campus in Fort St. John is situated on the traditional territory of the Doig River, Blueberry River and Halfway River First Nations. They are the Dunne-Za people. The Northwest campus in Terrace is situated on traditional Ts'msyen (Tsimshian) territory of the Kitsumkalum and Kitselas First Nations. It includes a satellite campus in the coastal community of Prince Rupert.

UNBC consistently ranks in the top three in its category in the annual Maclean's university rankings. UNBC also recently placed among the top five per cent of higher education institutions worldwide by the Times Higher Education World University Rankings.

With a diverse student population, the University is friendly, inclusive, and supportive. Prince George is a city of ~74,000 people with impressive cultural, educational, and recreational amenities. For more information about living and working in Prince George, please refer to <http://www.unbc.ca/experience> and <https://moveupprincegeorge.ca>. Make your mark with this leading post-secondary institution.

Salary

The salary for Part-Time Sessional Instructors is determined on the basis of Semester Contact Hour (SCH) at a rate of \$2,957.32 per SCH. Please refer to the link below to the UNBC Faculty Association Collective Agreement (Article 48) for more compensation information:

<https://www2.unbc.ca/sites/default/files/sections/human-resources/facultyassociationcollectiveagreementjuly12023-june302025-revised.pdf>

To Apply

The University of Northern British Columbia is committed to employment equity and encourages applications from the four designated groups (women, Indigenous peoples, persons with disabilities, and members of visible minorities) as well as the LGBTQ2+ communities and individuals with intersectional identities.

Applicants should forward their cover letter, the names and addresses of three references (including telephone and email information), and curriculum vitae to Meagan Jago, Administrative Assistant, at Meagan.Jago@unbc.ca, quoting the posting number (FAPT09-23).

Persons with disabilities, who anticipate needing accommodation wellbeing for any part of the application and hiring process, may contact UNBC Health & Wellbeing at @unbc.ca. Any personal information provided will be maintained in confidence.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. We thank all applicants for their interest in UNBC however, only those applicants selected for further consideration will be contacted.

Applications received on or before July 13, 2023, will receive full consideration; however, applications will be accepted until the position is filled.