Tenure-Track Positions in Artificial Intelligence & Machine Learning

The Department of Computing Science at the University of Alberta invites applications for two tenure-track positions (Assistant or, in exceptional cases, Associate Professor level), starting as early as July 1st, 2024, in the areas of Machine Learning (ML)/deep learning theory and Natural Language Processing with a focus on ML/deep learning. Other areas of expertise in Artificial Intelligence (AI) and Machine Learning (ML) may be considered.

The successful candidates must hold a Ph.D. (or equivalent) degree, whose primary focus is in Artificial Intelligence, Machine Learning, or Natural Language Processing, by the appointment date. They are expected to have demonstrated research potential strong enough for a promising nomination as Canada CIFAR AI Chair, evidenced by publications in top venues (conferences or journals) within their area of AI. They should also have strong communication skills and demonstrated commitment to highly effective graduate and undergraduate teaching. They will be expected to establish their own funded research programs, supervise graduate students, and teach graduate and undergraduate courses. Strong potential for productive interactions with other researchers in the Department and in other disciplines at the University of Alberta will be considered an asset.

The successful candidate will be nominated for a Canada CIFAR Artificial Intelligence (CCAI) Chair by the Alberta Machine Intelligence Institute (Amii). The CCAI Chair includes research funding for at least five years. This position is part of a University of Alberta cluster hire in the intersection of Machine Learning and other areas, including areas of research strength that include Health, Energy, and Indigenous Initiatives in health and humanities, among others. The successful candidate will also become an Amii Fellow, joining a highly collegial institute of world-class Artificial Intelligence and Machine Learning researchers, have access to Amii internal funding resources, administrative support, and a highly collaborative environment.

The Department of Computing Science is one of the largest and oldest computing science departments in Canada. The Department has 55 tenured/tenure-track faculty members and 7 academic teaching staff who are recognized for their excellence in research and teaching at the international, national, and university level. The Department's student population includes approximately 567 graduate students, 1,193 undergraduate honors and specialization students and over 1,370 undergraduate majors/minors. Approximately 6,116 undergraduate students are enrolled in Computing Science courses each term. The University of Alberta is home to over 44,000 students from 156 countries (divided roughly as 80% undergraduate and 20% graduate students) and 600 postdoctoral fellows.

Amii is one of three institutes named in the Pan-Canadian AI Strategy and consists of more than 35 artificial intelligence and machine learning researchers at the U of A, as well as CCAI Chairs at post-secondary institutions across Western Canada. The University of Alberta is world-renowned for its strength in AI and ML, which the University has identified as one of three
priority areas of global research prominence (University Strategic Plan). The AI cohort that includes this position will bring together and foster the next generation of scientists leading the development of machine learning for societal benefit, fulfilling Amii’s mandate of AI for good and for all.

The University of Alberta is committed to Equity, Diversity and Inclusivity (Strategic Plan for EDI) and to reconciliation (Indigenous Strategic Plan). We welcome applications from all qualified persons, including those with non-traditional career paths. Applicants are also encouraged to discuss, in their submitted statements (see below), how they will contribute to expanding the diversity of our campus with their research, supervision, teaching, and public outreach.

Applicants are asked to submit the following documents:

- A full curriculum vitae.
- A 2-3 page research statement which must
  - highlight contributions to their field of research,
  - present an overview of their planned research program for ~5 years after initial appointment,
  - describe how the candidate will interact, collaborate with, and complement other researchers at the University of Alberta.
- A 1-2 page teaching statement including their experience and interests.
- A 1-2 page equity, diversity, and inclusion statement which includes the candidate’s contributions and plans to advance EDI in their research, teaching, mentoring, and service.
- One recent peer-reviewed published contribution to their field of research, that best exemplifies their research.
- A cover letter. Note: As part of the Temporary Foreign Worker Program requirements, the university must conduct recruitment efforts to hire Canadians and permanent residents before offering a job to a temporary foreign worker. To ensure we remain in compliance with these regulations, please include the appropriate statement in your application "I am a Canadian Citizen/Permanent Resident" or "I am not a Canadian Citizen/Permanent Resident".

Candidates must provide contact information for three references. The references will have to submit confidential letters about the applicant’s accomplishments and potential as a faculty member through the AcademicJobsOnline site.

How to Apply:
Applications are to be submitted at the following AcademicJobsOnline site: https://academicjobsonline.org/ajo/jobs/26573. Complete applications and all reference letters must be received by January 2, 2024 for full consideration. Interviewees will have the opportunity to express the need for any accommodations, e.g., related to one’s mobility, dietary restrictions, child care, etc.

For further information, please email Britta Nielsen, the Department Chair’s Executive Assistant, at cs.ea@ualberta.ca (using “Faculty Positions 2024” as the email’s subject).
Tenure-Track Positions in Robotics

The Department of Computing Science at the University of Alberta invites applications for up to two tenure-track positions (Assistant or, in exceptional cases, Associate Professor level), starting as early as July 1st, 2024, in the area of Robotics with a particular focus on Artificial Intelligence (AI) and Machine Learning (ML) applied to physical robot systems.

The successful candidates must hold a Ph.D. (or equivalent) degree, whose primary focus is Robotics combined with AI/ML, by the appointment date. They are expected to have demonstrated research potential strong enough for a promising nomination as Canada CIFAR AI Chair, evidenced by publications in top venues (conferences or journals) within robotics, machine learning, and artificial intelligence. They should also have strong communication skills and demonstrated commitment to highly effective graduate and undergraduate teaching. They will be expected to establish their own funded research programs, supervise graduate students, and teach graduate and undergraduate courses. Strong potential for productive interactions with other researchers in the department and in other disciplines at the University of Alberta, including roboticists in the Faculty of Engineering and the Faculty of Medicine, will be considered an asset.

The successful candidate will be nominated for a Canada CIFAR Artificial Intelligence (CCAI) Chair by the Alberta Machine Intelligence Institute (Amii). The CCAI Chair includes research funding for at least five years. This position is part of a University of Alberta cluster hire in the intersection of Machine Learning and other areas, including areas of research strength that include Health, Energy, and Indigenous Initiatives in health and humanities, among others. The successful candidate will also become an Amii Fellow, joining a highly collegial institute of world-class Artificial Intelligence and Machine Learning researchers, have access to Amii internal funding resources, administrative support, and a highly collaborative environment.

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development of machine learning for societal benefit, fulfilling Amii’s mandate of AI for good and for all.

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  - describe how the candidate will interact, collaborate with, and complement other researchers at the University of Alberta.
- A 1-2 page teaching statement including their experience and interests.
- A 1-2 page equity, diversity, and inclusion statement which includes the candidate’s contributions and plans to advance EDI in their research, teaching, mentoring, and service.
- One recent peer-reviewed published contribution to their field of research, that best exemplifies their research.
- A cover letter. Note: As part of the Temporary Foreign Worker Program requirements, the university must conduct recruitment efforts to hire Canadians and permanent residents before offering a job to a temporary foreign worker. To ensure we remain in compliance with these regulations, please include the appropriate statement in your application "I am a Canadian Citizen/Permanent Resident" or "I am not a Canadian Citizen/Permanent Resident".

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