

**Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta**

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

<b>Job Title</b>	Full Professor and Killam Memorial Chair in Robotics for Healthcare Applications
<b>Department</b>	Electrical and Computer Engineering
<b>Institution</b>	University of Alberta Edmonton, Alberta
<b>Date Posted</b>	Feb. 27, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Endowed/Distinguished Professor Professor
<b>Academic Field(s)</b>	Electrical and/or Electronics Computer Engineering Bioengineering (all Bio-related fields) Mechanical Engineering Robotics
<b>Apply Online Here</b>	<a href="https://apptrkr.com/5050022">https://apptrkr.com/5050022</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

Image not found or type unknown



**Full Professor and Killam Memorial Chair in Robotics for Healthcare Applications**

**University of Alberta**

Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

VPRI Research and Innovation  
Competition No. - A109252605  
Closing Date - Apr 09, 2024

The Department of Electrical and Computer Engineering in the Faculty of Engineering at the University of Alberta is seeking applications for a tenured Full Professor position in Robotics for Healthcare Applications, with the potential for a cross-appointment in the Department of Biomedical Engineering.

This position is a part of the Association of the Academic Staff of the University of Alberta (AASUA). The salary will be commensurate with education and experience.

The successful candidate will also be appointed as a Killam Memorial Chair at the University of Alberta. Killam Memorial Chairs: i) make research and scholarship contributions to the sciences; ii) contribute to the University's research goal of discovering new knowledge; iii) are a senior research professor at the University; iv) conduct interdisciplinary research as it enables science innovations; and v) continually build a well-respected research profile both internally and externally. Killam Memorial Chairs are designed for scholars acknowledged by their peers as international experts in their fields. The Chair is tenable for 5 years and renewable once. The successful candidate will join a university with some of the most advanced research facilities and resources in the world.

Applications are invited from scholars in areas related to shape-shifting and soft medical devices, such as wearable, implantable, and transplantable devices. This may include devices with complex biocompatible, adaptive, foldable, origami-based, or multi-material structures. Such versatile medical devices and robots go beyond conventional rigid body components, designs, and controllers by leveraging soft materials or bio-inspired principles, and may be capable of intelligent environmental interactions such as sensing or manipulation. Example research areas include, but are not limited to, shape-shifting surgical instruments to actively navigate the complex geometry of the human body, intelligent compliant exosuits for people with disabilities, or smart artificial organs, limbs, and skin for patients in need of transplantation or augmentation. If you are a scholar in any of these areas or in similar applications who seeks to join a Faculty with a growing focus on the healthcare applications of robotics, we welcome your application!

The successful candidate will have a PhD in Electrical Engineering, Biomedical Engineering, Mechanical Engineering, or Computer Engineering. They are expected to be a licensed Professional

**Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta**

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

Engineer in Canada or to become a licensed Professional Engineer through the Association of Professional Engineers and Geoscientists of Alberta (APEGA, <https://www.apega.ca/>). Licensure must be obtained within five years of the date of hire.

The candidate will have a research record commensurate with that of a Full Professor at the University of Alberta. For research, this includes a highly-cited body of work published in top peer-reviewed journals and conference proceedings, a record of securing major research and infrastructure funding, and a record of establishing partnerships with industry. They will be an established and respected instructor with experience at the undergraduate and graduate levels. Their record of service and leadership will show a history of going above and beyond in collegial and professional activities related to their research, teaching, industry, and equity, diversity, and inclusion.

The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women, First Nations, Metis and Inuit persons, members of visible minority groups, persons with disabilities, persons of any sexual orientation or gender identity and expression, and all those who may contribute to the further diversification of ideas and the University to apply.

### **The Role of Professor and Killam Memorial Chair**

The successful candidate is expected to be a scholar, working in teaching, research, and service:

#### **Research, including:**

- Seeking financial resources for research from granting agencies or other sources;
- Effectively supervising trainees and employees and their research projects;
- Disseminating the results of research by means appropriate to the discipline; and

Overseeing laboratories and facilities, budget management, and safety.

#### **Teaching, including:**

- Classroom teaching, supervision of graduate students, and mentorship of students through personal interactions and student advising;
- The engineering program has two 12-week teaching terms in fall and winter, and two 6-week undergraduate teaching terms in summer for the schedule of the undergraduate co-operative education program; and

Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

The successful candidate may choose specific course content and instructional methodology, recognizing the course description and academic policy approved by the Department, the Faculty, and the University.

Service to the university and the collegial aspects of departmental, Faculty, and university governance as well as to the discipline or profession - all of which shall be carried out according to the standards of professional conduct expected of an

- Academic Faculty member, and when relevant, of a Professional Engineer, including:
- Providing service to the discipline;
- Participating in the governance of the University, the Faculty, and the Department; and

Disseminating knowledge to the general public by making available one's expertise and knowledge of the discipline.

As we build our team, we recognize that our people are and will continue to be our greatest strength. The successful candidate will join one of the top Engineering programs in Canada. We help students develop the skills they need to dream of and invent the technology of the future through hands-on experiences in state-of-the-art labs with instruction from skilled faculty members. We have world-class research and teaching facilities and a range of research and education programs.

**The Electrical and Computer Engineering Department** has more than 60 faculty members with expertise in the areas of Electrical Engineering, Computer Engineering, Software Engineering, and Intelligent Systems. The Department welcomes creativity, diversity, perseverance, and a collaborative spirit, and recognizes the importance of excellence in conjunction with work/life balance, interdisciplinary research, and mentorship. The Department is co-developing a new undergraduate mechatronics program with the Department of Mechanical Engineering that is under governance review and aims to be launched in about one year.

**The Biomedical Engineering Department** offers students interdisciplinary research opportunities and state-of-the-art facilities to take their ideas from imagination to application. The Department currently offers a Master of Science (M.Sc.) and a Doctor of Philosophy (Ph.D.) program in Biomedical Engineering, and the Department is expanding to offer a Master of Engineering (M.Eng.) in Biomedical Engineering. Working with medical professionals, our world-class researchers design systems, software, and devices that save lives today and improve the healthcare landscape of tomorrow.

**The University of Alberta**

## Full Professor and Killam Memorial Chair in Robotics for Healthcare Applications University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

exists to inspire and ignite the human spirit in pursuit of a better tomorrow. Its work is rooted in its commitment to equity, diversity, and inclusion while honoring Indigenous identities, languages, cultures, and world views. As one of the world's top 100 teaching and research universities, the University of Alberta ranks among the top 5 in Canada, providing a \$19.4 billion annual economic impact in Alberta alone. The University of Alberta seeks to challenge, to change, and to always be Leading with Purpose.

More than 44,000 students and 13,000 staff shape the University of Alberta, with outstanding achievements in learning, research, creativity, innovation, and engagement across five campuses - including one rural and one francophone. The University of Alberta attracts top talent in rigorous undergraduate, graduate, and professional programs in 17 faculties across three colleges and receives more than \$600 million in annual sponsored research revenue. The University has over 300,000 alumni worldwide.

### **Working and Living Here Our Faculty Culture**

The Faculty of Engineering believes that innovation, professionalism, and excellence in engineering stem from those who value perspectives and people. Collaboration, mentorship, creating meaningful change in society, and going above and beyond to help others in all aspects of our roles - research, teaching, and service - are core to all of us.

### **Benefits, Health, & Wellness**

We offer a health and wellness benefits package that includes a health spending account, parental leave, and pension benefits. For Faculty members, some moving and relocation expenses may be reimbursed. Spouses/partners are offered employment services through the University's Spousal/Partner Employment Program. The campus offers a medical clinic, and there are multiple childcare and housing options within steps of campus.

### **Life in Edmonton**

Edmonton is home to over one million people and Alberta's capital. Edmonton offers a vibrant start-up and technology ecosystem, federal and provincial government offices, the Corporate Offices of the provincial healthcare system, and an international airport. Edmonton has also a growing biotechnology industry with notable companies including Pulsemedica <https://www.pulsemedica.com/>, Smilesonica <https://smilesonica.com/>, Health Gauge <https://www.healthgauge.com/>, Applied Pharmaceutical

Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

Innovation, <https://appliedpharma.ca/>, 48 Hour Discovery <https://48hourdiscovery.com/>, and more. The city offers the amenities of a large urban centre while maintaining a friendly atmosphere. Several faculty members live in nearby neighborhoods within walking and biking distance of the University offering a range of multi and single-family homes and having close-by schools within one of Canada's top provincial school systems. Edmonton is known internationally for its thriving arts and festival scene with one of North America's largest stretches of urban parkland, and top-ranked health care services.

We invite you to visit these websites for information about the:

- University of Alberta ([www.ualberta.ca/faculty-and-staff/index.html](http://www.ualberta.ca/faculty-and-staff/index.html)),
- Academic Staff Benefits (<https://www.ualberta.ca/human-resources-health-safety-environment/benefits-and-pay/benefits-and-pension/benefits-overview/academic/index.html>),
- the Faculty of Engineering ([www.ualberta.ca/engineering/index.html](http://www.ualberta.ca/engineering/index.html)), and

Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

the City of Edmonton (<https://exploreedmonton.com/>)

### Application Instructions

**Please apply online and submit the following documents :**

1. A cover letter that includes highlights of your profile
2. Curriculum vitae (CV)
3. Research statement that outlines the main areas of current research and short- and long-term research goals, including a list of publications and conference presentations. (submit under "Research Plan")
4. Up to 3 samples of recent peer-reviewed research publications that you would like to highlight for the committee. (submit under List of Publications)
5. Teaching dossier that includes a brief teaching philosophy, evidence of, or potential for, teaching effectiveness, and sample course outline(s) (submit under Statement of Teaching/Research Interests)
6. Equity, diversity, and inclusivity (EDI) statement that outlines the candidate's philosophy, experience, training, and future interests and goals in these areas related to research, teaching, and service. The future interest and goals section should be aligned with institutional and disciplinary strategies, including the University of Alberta's Strategic Plan for Equity, Diversity, and Inclusivity: <https://www.ualberta.ca/equity-diversity-inclusion/strategic-plan-for-edi/index.html>; and Engineers Canada's Strategy: <https://engineerscanada.ca/diversity/about-diversity-in-engineering>; (2 pages maximum - submit under EDI Philosophy)

From applicants selected for interviews only: Letters of reference from 3 referees will be requested.

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".

We invite requests for reasonable accommodations and inquiries about accessibility from candidates during the recruitment process in line with the University's Accommodations Policy. For a confidential conversation, candidates should contact Evan Ramage ([evan.ramage@ualberta.ca](mailto:evan.ramage@ualberta.ca)) with the job posting number or title of the position.

Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024



Full Professor and Killam Memorial Chair in Robotics for  
Healthcare Applications  
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=231457>

Downloaded On: May. 8, 2024 8:08am

Posted Feb. 27, 2024, set to expire Jun. 25, 2024

For more information on the Killam Awards and funding, including the Killam Chairs, click [here](#).

### How to Apply

Apply Online

Note: Online applications are accepted until midnight Mountain Standard Time of the closing date.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered.

To apply, please visit: <https://apps.ualberta.ca/careers/posting/634>

*The University of Alberta is committed to an equitable, diverse, and inclusive workforce. We welcome applications from all qualified persons. We encourage women; First Nations, Métis and Inuit persons; members of visible minority groups; persons with disabilities; persons of any sexual orientation or gender identity and expression; and all those who may contribute to the further diversification of ideas and the University to apply.*

jeid-897288f0ca7fc94f8d963cbb29d0374c

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

### Contact

Electrical and Computer Engineering  
University of Alberta

,