

Assistant or Associate Professor in Integrated Circuits
Engineering
University of Alberta

Direct Link: <https://www.AcademicKeys.com/r?job=269470>

Downloaded On: Dec. 18, 2025 12:38pm

Posted Dec. 16, 2025, set to expire Feb. 28, 2026

Job Title	Assistant or Associate Professor in Integrated Circuits Engineering
Department	Engineering
Institution	University of Alberta Edmonton, Alberta
Date Posted	Dec. 16, 2025
Application Deadline	02/28/2026
Position Start Date	Available immediately
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Electrical and/or Electronics Computer Engineering Computer Science
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Job Description

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Assistant or Associate Professor in Integrated Circuits Engineering

Job Identification 3320

Posting Date 12/09/2025, 10:33 PM

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Apply Before 4/9/2026

Job Schedule Full Time

Locations Edmonton, AB, Canada (On-site)

Category Type Engineering - Electrical

Position Type Faculty (Includes Asst. Professors, Associate Professors)

College/Administrative Portfolio College of Natural And Applied Sciences

Faculty/Department Engineering

About the Team

The [Faculty of Engineering](#) is one of North America's top engineering schools, known for innovation, collaboration, and impact. It fosters an exceptional student experience through a holistic approach that combines technical excellence with emotional intelligence. With strong community engagement, interdisciplinary research, and a commitment to societal well-being, the faculty prepares students to lead in a rapidly evolving, global engineering landscape.

Description

This position is part of the Association of the Academic Staff of the University of Alberta (AASUA).

The successful candidate will be offered a tenured or tenure-track appointment with the rank of Assistant or Associate Professor, which is in accordance with the [Academic Faculty Agreement](#), and offers a [comprehensive benefits package](#).

The Department of Electrical and Computer Engineering in the [Faculty of Engineering](#) at the [University of Alberta](#) is seeking applications for a full-time tenure-track Assistant or Associate Professor position in **integrated circuits engineering**.

Applications are invited from candidates with research expertise in integrated circuits, including but not limited to the following areas:

- Energy-efficient mixed-signal and RFIC design,

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- Sub-THz and mm-wave circuits and systems for high-speed wireless/wireline communication links (5G/6G and beyond, 100-400 Gbps links),
- Integrated circuits, including neuromorphic chips, for artificial intelligence, machine learning, and edge computing,
- Ultra-low-power circuits for IoT applications,
- Circuits for biomedical, wireless power, and sensing applications,
- Interface circuits for quantum computers,
- Hardware security and trusted IC design, and
- System-in-Package (SiP) and advanced IC packaging technologies.

The successful candidate will join a team of faculty members committed to an exceptional student experience. The Department has over 1,000 undergraduate students across the electrical and computer programs, which grew in 2025 with the new Mechatronics and Robotics Engineering program. There are opportunities to engage with students in and out of the classroom in research laboratories, capstone projects, and student clubs and teams, like Mission Space Walker, UAlberta Solar Car, and the IEEE Student Branch. The Department's graduate program attracts students who are dedicated to developing in their area of expertise from schools worldwide and presently has an enrollment of 400 students, including approximately 200 Ph.D. students. Through hands-on experiences in state-of-the-art labs and instruction from skilled faculty, we help students develop the skills they need to dream of and invent the technology of the future. More information is available at www.uab.ca/ece.

As we build our team, we recognize that our people are and will continue to be our greatest strength. Applicants who value working across disciplinary boundaries, within and outside engineering, as well as with communities and industry, are strongly encouraged to apply.

Responsibilities

The Assistant Professor role is the starting point on the academic faculty member career pathway at the University of Alberta. Faculty members are full members of the department and play an active role in democratic processes and governance. The responsibilities of the role include active participation in teaching, research, and service:

- **Teaching (40%):** Participation in teaching programs, including classroom teaching, supervision of students conducting research, and personal interactions with and advising students. An Academic Faculty member may decide on specific course content and instructional methodology, recognizing the approved course description, and academic policies approved by the

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Department, the Faculty, and the University. Teaching is year-round, with most courses in the Fall (September to December) and Winter (January to April) semesters. Teaching assignments are decided in discussion with the Department Chair. As the Canadian Engineering Accreditation Board accredits the undergraduate degree programs in our Faculty, licensure as a Professional Engineer or Licensee in Alberta is required. Licensure must be obtained within five years of the hire date.

- **Research (40%):** Participation in research, including the preparation or performance of creative works and reflective inquiry, and disseminating research results by means appropriate to the discipline. Academic Faculty members are encouraged to seek funding for research from granting agencies or other sources.
- **Service (20%):** An Academic Faculty member shall be actively engaged in service to the University and participate in the collegial responsibilities of departmental, Faculty, and University governance. Provision of service to the discipline of the Academic Faculty member; participation in the governance of the University, the Faculty, and the Department, and dissemination of knowledge to the general public by making available the Academic Faculty members expertise and knowledge of the discipline.

The Department Chair supervises Faculty Members. Annually, Faculty Members prepare and submit a report of their university responsibilities to the Department Chair and the Dean. We offer a competitive market salary. For information about the responsibilities, salary, benefits, leaves, and related details, see the most recent [collective agreement for academic faculty members](#).

Qualifications

Minimum Qualifications

1. Ph.D. in Electrical and/or Computer Engineering or a related field such as Computer Science
2. Experience effectively communicating the results of research within and outside of the academy, including publications in reputable, peer-reviewed journals and conference proceedings
3. Licensure, progress towards licensure, or eligibility for licensure as a Professional Engineer or Licensee in Alberta is required through the Association of Professional Engineers and Geoscientists of Alberta (APEGA, <https://www.apega.ca/>). Licensure must be obtained within five years from the date of hire
4. Ability to effectively develop, instruct, and engage learners in the engineering curriculum
5. Excellent written and verbal communication skills

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The Following are Considered an Asset

1. Industry experience in engineering, trades, sciences, and technology industries
2. Experience with interdisciplinary and collaborative research projects as well as with managing large, multi-year research projects
3. Experience working with industry and community partners for research projects
4. Team, lab, and facility management experience, including but not limited to safety, supervision, and procurement
5. Teaching experience and training in teaching, lesson planning, and curriculum design
6. Teaching, research, service, and volunteer work related to the role as well as community boards and organizations and outreach to and helping in underserved and underrepresented communities
7. Grant application and financial management experience and training

How to Apply

Please ensure that your application shows clearly how your skills and experience meet the criteria above. To apply, please select the Apply Now icon below and submit the following in **ONE PDF document**:

1. Cover letter
2. Curriculum vitae, including your research, teaching, and service experience related to the role and responsibilities, as well as the qualifications above
3. Research Plan (maximum 3 pages) that outlines main areas of current research and short and long-term research goals, and how you will build and retain a high-performing and diverse research team. Please include your plans for the design of the research environment and the team, and for equitable opportunities for all members of the team to engage with the work being conducted and other opportunities that will advance their career goals, and up to 3 recent peer-reviewed research publications
4. Teaching Dossier including
 - a. Teaching philosophy (maximum 3 pages), including how you will contribute to our culture of providing exceptional educational experiences that focus on learner engagement and inclusivity, experiential and active learning, while building engineering knowledge and skills as well as emotional intelligence, social mindedness, and ethics, and
 - b. Evidence and potential for teaching effectiveness, such as related training, teaching

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assistantships, courses instructed, recent course evaluations, and example course outlines for courses you delivered as an instructor.

5. Members of selection committees will be aware of the principles of employment equity, fair selection, and the risks of bias. If, for any reason, you have taken a career break or have had an atypical career and wish to disclose this in your application, the selection committee will take this into account, recognizing that the quantity of your research may be reduced as a result.

Next Steps

- Applicants will be accepted until February 27, 2026; however, our shortlisting process will begin in early January 2026. The anticipated start date for these positions would be July 1, 2026. University representatives will review application packages, and should the Hiring Committee advance your application, you will be contacted for an online pre-interview.
- Please note that applications with missing information or components will not be considered.

For applicants selected for interviews, three letters of reference will be requested. Applicants will be expected to contact the three referees and arrange to have them submit their letters of reference via email attachment. Details will be provided to those candidates selected for interviews.

About the Faculty of Engineering and the University of Alberta

The Faculty of Engineering aims to maintain its position among the top schools in North America. We will do this through innovation and excellence from faculty members and staff who value collaboration, interdisciplinary work, and an engaging and positive work culture. We are dedicated to building a better future for society by:

1. Building the future through people in a collaborative, cross-functional environment
2. Developing minds and hands with heart by taking a holistic approach to provide an exceptional student experience through education and enrichment that strives to develop the highest-calibre engineers: Those who possess both technical acumen and emotional intelligence, expanding the traditional definition of "engineering"
3. Demonstrating the ever-expanding value of our contributions through community engagement, research impact, and value to society
4. Uniquely positioning the engineering field to help uplift the whole of humanity

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The University of Alberta exists to inspire and ignite the human spirit in pursuit of a better tomorrow. Its work is rooted in a commitment to creating a university community where everyone feels valued, barriers to success are removed, and thriving connections are fostered while honouring Indigenous identities, languages, cultures and world views. As one of the worlds top 100 teaching and research universities, the U of A ranks among the Top 4 in Canada, providing a \$19.4 billion annual economic impact in Alberta alone. The U of A seeks to challenge, to change and to always be Leading with Purpose.

More than 46,000 students and 14,000 staff shape the U of A, with outstanding achievements in learning, research, creativity, innovation and engagement across five campuses - including one rural and one francophone. The U of A attracts top talent in rigorous undergraduate, graduate and professional programs in 17 faculties across three colleges and more than \$621 million in sponsored research revenue. The U of A has more than 340,000 alumni worldwide, with alumni-founded companies generating more than \$250 billion in annual revenue.

Working and Living in Edmonton

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 [Universitys Spousal/Partner Employment Program](#). In the Faculty of Engineering, for spouses eligible to be academic faculty members, we encourage discussing with the Department Chair at the offer stage or during employment, as we value minimizing long-distance separation of families whenever possible, with consideration to budgets and staffing needs. The campus offers a medical clinic, and multiple childcare and housing options within steps of campus. Academic faculty members are offered parental and medical leave, retirement benefits, and healthcare benefits.

Living in Edmonton

[Edmonton](#) is home to over one million people and is Albertas capital. Edmonton offers a vibrant start-up and technology ecosystem, federal and provincial government offices, and the Corporate Offices of the provincial healthcare system. The city offers the amenities of a large urban centre while maintaining a friendly atmosphere. Several faculty members live in nearby neighbourhoods with a range of multi-family and single-family housing options within walking and biking distance of the University. Alberta is among Canadas top provincial school systems, with several primary and

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secondary schools near campus. 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.

About Us

The University of Alberta acknowledges that we are located on Treaty 6 territory, and respects the histories, languages and cultures of First Nations, Métis, Inuit and all First Peoples of Canada, whose presence continues to enrich our vibrant community.

The University of Alberta is a community of knowledge seekers, change makers and world shapers who lead with purpose each and every day. We are home to over 14,000 faculty and staff, more than 40,000 students and a growing community of 300,000 alumni worldwide.

Your work will have a meaningful influence on a fascinating cross-section of people - from our students and community members, to our renowned researchers and innovators, making discoveries and generating solutions that make the world healthier, safer, stronger and more just. [Learn more.](#)

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.

At the University of Alberta, we are committed to creating an inclusive and accessible hiring process for all candidates. If you require accommodations to participate in the interview process, please let us know at the time of booking your interview and we will make every effort to accommodate your needs.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

All University employees have a responsibility to foster a workplace that prioritizes safety in all its forms - physical, cultural, and psychological. This is achieved by promoting a safe environment, adhering to all safety laws, policies and procedures, completing all required safety training, identifying hazards and implementing controls, reporting incidents, and contributing to a culture of belonging and respect, while endeavoring to ensure that all colleagues feel valued and safe to express their thoughts, perspectives and concerns.

The University of Alberta is committed to creating a university community where everyone feels valued, barriers to success are removed, and thriving connections are fostered. 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

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expression, and all those who may contribute to the further diversification of ideas and the University to apply.

L'Université de l'Alberta s'engage à créer une communauté universitaire où chaque personne se sent valorisée, où les obstacles et les limites sont éliminés et où des connexions enrichissantes peuvent se développer. Nous accueillons les demandes de toutes les personnes qualifiées. Nous encourageons les femmes; Premières nations, Métis et Inuits; membres des groupes minoritaires visibles; personnes handicapées; personnes de toute orientation sexuelle ou identité et expression de genre; et toutes les personnes qui peuvent contribuer à la diversification des idées et à l'université postuler.

To apply, visit <https://iae.jup.fa.ocs.oraclecloud.com/hcmUI/CandidateExperience/en/sites/UA-Careers/job/3320>

Contact Information

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

Contact

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