Postdoctoral Fellowship Positions in Sustainable, Resilient, Energy-Efficient Smart Cities
University of Alberta

Job Title	Postdoctoral Fellowship Positions in Sustainable, Resilient, Energy-Efficient Smart Cities
Department	Department of Civil and Environmental Engineering
Institution	University of Alberta
	Edmonton, Alberta
Date Posted	Jun. 20, 2024
Application Deadline	Jun. 30, 2024
Position Start Date	Available Immediately
Job Categories	Post-Doc
Academic Field(s)	Transportation Engineering
	Sustainable Engineering
	Structural Engineering
	Robotics
	Mechanical Engineering
	Industrial & Systems Engineering
	Human Factors Engineering/Ergonomics
	Ecological and Environmental
	Engineering Physics
	Engineering Mechanics
	Energy Technology
	Electrical and/or Electronics
	Computer Engineering
	Computer Science
	Construction Engineering/Management
	Civil Engineering
	Architectural (Building & Construction)
	Aerospace/Aeronautical/Astronautics
	Engineering - Other

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Job Website   https://apps.ualberta.ca/careers/posting/1031

Apply Online Here   https://apps.ualberta.ca/careers/posting/1031

Apply By Email

Job Description

Description

This position offers a benefits package found at Postdoctoral Fellows Benefits.

Location - This role is in-person at North Campus Edmonton.

Position

Up to two postdoctoral positions are available immediately to support the research conducted by Dr. Mustafa Gül and his team in the Dept. of Civil & Environmental Engineering at the University of Alberta.

Topic 1: Smart Home Energy Management Systems for Solar PV-Integrated Homes using Internet of Things (IoT)

- The candidate will work on Artificial Intelligence (AI), deep learning, and reinforcement learning in the context of energy-efficient buildings integrated with solar PV and IoT.

Topic 2: Assessment of Wildfire-related Risks and Hazards of Civil Infrastructure Using Computer Vision

- The candidate will work on assessing wildfire-related risks and hazards to critical infrastructure systems using image/video processing, Artificial Intelligence (AI), and deep learning.

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Qualifications

Topic 1: Smart Home Energy Management Systems for Solar PV-Integrated Homes using Internet of Things (IoT)

- Ph.D. degree in Civil Engineering, Computer Science, Computer Engineering, Electrical Engineering, or related fields.
- Experience with renewable energy integration to energy-efficient buildings.
- Experience in AI, deep learning, reinforcement learning, data analytics, and signal processing applications in the related domain.
- Strong programming skills and familiarity with relevant software and programming languages.
- Strong data analytics and management skills.
- Strong publication and presentation track record in related fields.
- Experience and interest in mentoring and training students as part of a research team.
- Ability to work independently and within a team, including demonstrated leadership qualities and interaction with collaborators.

Topic 2: Assessment of Wildfire-related Risks and Hazards of Civil Infrastructure Using Computer Vision

- Ph.D. degree in Civil Engineering, Computer Science, Computer Engineering, Electrical Engineering, or related fields.
- Experience with the assessment of wildfire-related risks and hazards.
- Experience in AI, deep learning, image/video processing, data analytics, and signal processing applications in the related domain.
- Strong programming skills and familiarity with relevant software and programming languages.
- Strong data analytics and management skills, and the ability to develop databases.
- Experience with GIS.
- Strong publication and presentation track record in related fields.
- Experience and interest in mentoring and training students as part of a research team.
- Ability to work independently and within a team, including demonstrated leadership qualities and interaction with collaborators.
- Excellent verbal and written communication skills, with the ability to present to a wide range of audiences.

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

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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.

EEO/AA Policy

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.

Contact Information

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

Contact

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Canada