

## Researcher

Ecole/Institution/Société:

**Maynooth University, Ireland / Maynooth**

Discipline:

**Computer Science**

Type d'emploi::

**Full-time**

Date de publication:

**2025-02-23**

Personne à contacter:

**If you wish to apply for this position, please specify that you saw it on AKATECH.tech**

Research Fellow - Urban Modelling, Computer Science

Employer: MAYNOOTH UNIVERSITY

Location: Maynooth, Ireland

Salary: €63,958 [p.a.](#)

Department: Computer Science

Vacancy ID: 033702

Closing Date: 24-Feb-2025

Maynooth University is committed to a strategy in which the primary University goals of excellent research and scholarship and outstanding education are interlinked and equally valued.

The Urban Sense research project is a collaborative research project coordinated by Maynooth University and supported by Research Ireland's LERO Centre in partnership with Dublin City Council. The project will generate spatial-temporal datasets from various sources including Spaceborne Satellites, Drones, in-situ instruments, wide area sensor networks as well as GIS databases that can be integrated into a suite of urban based models, from simple surface energy models to more complex dynamical land surface models. A core output from the overall project will be the development of novel and automated methodological approaches to characterise urban building stock based on available, existing imagery which will be developed in collaboration with University College Dublin, a research partner.

We are seeking an experienced atmospheric or land surface modelling scientist who has knowledge of, and expertise in, modelling urban land cover and climate. The candidate will have experience in

handling and processing data from a variety of sources and different formats ([e.g.](#) in-situ, satellite, geotiff, netcdf etc), be capable of developing model code ([e.g.](#) python) and analysing and visualising multi-dimensional data ([e.g.](#) Cran R). Knowledge of ML based analysis techniques, while not a requirement, would be beneficial to the role. The modelling scientist will work closely with the Principal Investigators (PIs), and wider Urban Sense team, including at University College Dublin, to support the various data collection, EO and modelling R&D activities of the wider research team, partners and collaborators.

Salary:

Research Fellow (2024): € 63,958 [p.a.](#) (Point 1)

Appointments will be made in accordance with public sector pay provisions.

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