

Position: Postdoctoral researcher for remote sensing of GHG fluxes over the Arabian Peninsula

University: Civil, Infrastructural and Environmental Engineering at Khalifa University

We are seeking one postdoctoral fellow for upscaling GHGs fluxes using remote sensing. The project aims to use passive (hyperspectral and multispectral) and active (SAR) remote sensing imagery to evaluate the spatial distribution and quantify the greenhouse gas emission in the Arabian Peninsula. The main focus of the planned research activities is the development of evaluation methods for the derivation of CO₂ and methane information from satellite data and their application. The project includes physics-based models combined with Artificial intelligence.

Qualifications:

- PhD degree or equivalent in a suitable field, e.g., computer science, data science, atmospheric sciences, physical sciences, mathematics, engineering, ecology (also applicants near the completion of the degree will be considered)
- Strong interest in the field of satellite remote sensing of the atmosphere
- Very good knowledge and relevant experience in at least one of the following fields: Satellite remote sensing, radiative transfer, inversion theory, greenhouse gas measurements, numerical modelling of complex systems
- Proven track-record on writing scientific publications
- Ability to carry out independent, systematic, well-organized research work as well as work as part of a team
- Very good programming skills in at least one high-level programming language (ideally Python) and good Linux skills (including shell scripting)
- Good communication skills
- Good spoken and written English language skills

Share your CV via email Dr Maryam R. AlShehhi (maryamr.alshehhi@ku.ac.ae)