

Job Description

Post title: Research Fellow in AI/ML (Artificial Intelligence / Machine Learning)

Grade: UH7

School/Department: Physics, Engineering and Computer Science/Engineering

Responsible to: Principal Investigator Prof. Iosif Mporas

Responsible for: n/a

MAIN PURPOSE OF THE JOB

Research Fellow post to deliver research for the development of innovative AI/ML algorithms for predictive modelling and optimisation of agricultural systems applications. The post is part of a collaborative project funded by Innovate UK. The Research Fellow will have to attend project meetings, support the Principal Investigator (Academic Lead), collaborate with the consortium's partner members, and undertake the development of AI/ML based software tools, writing of publications, reports and relevant to the project documents.

RESPONSIBILITIES AND DUTIES

1. To support the Principal Investigator in achieving the project milestones.
2. To attend project meetings as required.
3. To undertake the development of AI/ML software tools.
4. To handle data management and analysis as required.
5. To contribute to the design and organisation of the R&D project.
6. To assist with project administration.
7. To assist with collating and writing publications, the project reports and working papers.

SUPERVISION RECEIVED

Supervision will be given by the Principal Investigator, Prof. Iosif Mporas. Operating with a reasonable degree of autonomy in carrying out the above responsibilities the post holder will be expected to organise their activities and priorities in accordance with the demands of the post.

PERSON SPECIFICATION

Post title: Research Fellow in AI/ML (Artificial Intelligence / Machine Learning)

QUALIFICATIONS & MEMBERSHIPS

An undergraduate degree (or equivalent level 6 qualification) in Engineering (Electronics /Electrical) or Computer Science in a relevant subject area.	Essential
A PhD (or equivalent qualification level 8 qualification) or close to completion of PhD (no more than 3 months prior to viva) in Engineering (Electronics /Electrical) Computer Science or another relevant subject area, or equivalent experience.	Essential

EXPERIENCE

Significant experience in Artificial Intelligence and Machine Learning including experience in AI/ML frameworks (e.g. TensorFlow, Scikit-Learn, PyTorch, etc) and in developing AI/ML projects.	Essential
Knowledge and Experience in AI/ML for agricultural systems or environmental data.	Desirable
Knowledge and experience in heterogeneous and asynchronous data analysis.	Desirable
Knowledge in continual and multitask learning.	Desirable

KNOWLEDGE AND ABILITY

Knowledge and experience in AI/ML frameworks (e.g. TensorFlow, Scikit-Learn, PyTorch, etc) and developing AI/ML projects.	Essential
Ability to implement specialised innovative ideas into code.	Essential
Excellent written and oral communication, and IT skills.	Essential
Able to organise own research activities to deadline and quality standards. Self-motivated with ability to meet deadlines.	Essential
Ability to understand complex problems requiring in-depth knowledge.	Essential
Ability to collaborate with others.	Essential
Knowledge and experience of AI/ML development in high-performance cluster systems.	Desirable
Able to write up research results for publication in high-quality peer-viewed journals.	Desirable

BEHAVIOURS AND ATTRIBUTES

Flexible and adaptable to workload and team requirements	Essential
Effective in a team setting	Essential
Able to demonstrate initiative and the ability to learn new skills	Essential