

Post/Job Title:	Research Assistant (Fixed-term)
Ref:	608
Faculty/Professional Service:	MST/Computing & Engineering
Grade:	4
Location including building:	Poole house
Normal hours per week:	1 FTE
Duration (Dates form and to):	6 Months starting from the offer date.
Accountable to:	Prof Hamid Bouchachia

Job Purpose

We are seeking talented and enthusiastic candidates to join the EU-funded ARTEMIS project, under the direction of the Principal Investigator, [Prof Hamid Bouchachia](#), working towards the development of machine learning (ML) and AI methods with application in the medical field. The position will be suitable for any master's degree first-degree in ML and AI.

The successful candidate will investigate and develop federated learning algorithms for both scalable and privacy-guaranteed clustering and classification. The focus is mostly on **longitudinal multimodal data** (involving imaging, clinical, biology and multi-omics data), where **representation learning** and **multi-modal data fusion** are of key importance. The exact boundary of the research work will cover any of the listed aspects in a way to contribute to the delivery of the project by conducting relevant research leading to publishable outputs.

The role of the Research Assistant Researcher is to contribute to the delivery of the project in terms of planning, designing, and conducting research leading to published outputs and exploitable results.

The researcher will have access to funding for international travel, e.g., for attending conferences, attending the consortium meetings, and research dissemination, while working in a supportive, collaborative, inclusive and non-discriminating working environment. We welcome candidates from all backgrounds to apply.

Main Responsibilities

1. Undertake research as directed, including data collection and assistance with data analysis.
2. Maintain accurate, complete and timely data and records in accordance with the appropriate protocol(s).
3. Consolidate work and records, produced by others within the project(s).
4. Assisting with dissemination of research findings.
5. Co-ordinate the day-to day administrative management of the project, including producing progress reports as required.
6. Act as first point of contact for the project(s) and liaise with colleagues from project partners as required.
7. Prepare documentation, for example, Research Ethical Governance, and associated paperwork including consent, participant information sheets, etc.
8. Contribute to the development of best practice guidelines and the design and delivery of education and/or professional practice activities in related subject areas.

9. Contribute to grant applications, publications and the dissemination of findings as appropriate.
10. Attend and participate in team meetings and committees as appropriate.
11. Undertake personal and professional development activities in line with agreed appraisal and development programme to enhance personal knowledge and contribution to relevant activities. This may include gaining a Doctoral qualification if not already achieved.

Dimensions

The work to be undertaken is part of the EU project **ARTEMIS** with the vision to provide develop federated learning algorithms using multi-modal data.

Besides the scientific work, the candidate should be able to assist in the delivery of ARTEMIS in terms of coordination and monitoring if required.

Contacts

Internal: Prof Hamid Bouchachia

External: ARTEMIS' Consortium partners

Challenges

We are seeking a profile with expertise in ML/deep learning with focus on supervised, unsupervised and self-supervised learning. Good background in federated/distributed and representation learning is essential. Other aspects like hands-on experience in health data processing (including medical imaging, clinical data, omics data) are extremely welcome.

Information Governance Responsibilities

Data User

- i. Comply with the associated data protection, information security, information management and information technology regulations, policies, processes and procedures.

Safeguarding and Regulated Activity

If the role involves engaging in regulated activity relevant to vulnerable groups including children and disabled adults, it is an [offence to apply for](#) and perform the role, if a person is barred from engaging in regulated activity. Further information is available in BU's [Safeguarding Policy](#) and Suitability Statement on the Recruitment and Employment of Ex-offenders.

Additional Information

The purpose of the job description is to indicate the general level of responsibility and location of the position. The duties may vary from time to time without changing their general character or level of responsibility.

BU is an equal opportunities employer which values a diverse workforce. The post holder must at all times carry out their responsibilities with due regard to the University's Dignity, Diversity and Equality Policy Statement.

Our highly skilled and creative workforce is comprised of individuals drawn from a broad cross section of the globe, and who reflect a variety of backgrounds, talents, perspectives and experiences to build our global learning community. Through fused activity, the post holder must have an understanding of and commitment to promoting a global outlook.

All employees have an obligation to be aware of and comply with the Universities Sustainability Policy, Carbon Management Plan and associated documents, and to ensure that whilst at work that they demonstrate the adoption of sustainable habits or practices and carry out their day-to-day activities in an environmentally responsible manner.

January 2026



Person Specification

Position / Job Title: Research Assistant	Faculty / Service: MST/Computing & Engineering
Position No: TBC	Date: 27/01/2026
SELECTION CRITERIA	Essential / Desirable
Knowledge (including experience & qualifications)	
Expertise in Machine Learning (supervised, unsupervised and self-supervised learning, Federated learning multi-modal data processing)	E
Master's degree/First-degree level in Artificial Intelligence / Machine Learning	E
Experience of using federated learning frameworks like Flower, and general machine learning frameworks like TensorFlow, PyTorch, and Scikit-learn	E
Understanding of ML workflow, development tools, and big data ecosystems	E
Understanding of distributed and federated ML, data fusion/representation learning	E
Evidence of research skills	E
Skills	
Excellent interpersonal skills	E
Ability to work well both as team member and on own initiative	E
Research and writing skills to a publishable standard	E
Able to communicate well at all levels both internally and with external agencies	E
Attributes	
Highly motivated to work in subject area	E
Flexible, adaptable with strong team working skills	E
Able to identify research and enterprise activities relevant to research community	D
Highly motivated to work in subject area	E