UNIVERSITY OF WARWICK

Job Description

Job title	Research Fellow (Innovation Research Associate)
Department	Mathematics (CAMaCS)
Grade	FA6

Job purpose (a brief summary of the role)	To provide mathematical, statistical, machine learning and AI expertise dedicated to a broad range of research projects, with a focus on the leadership of scoping, designing, and co-developing projects with a range of external partners from Business, Industry, and Government.
Duties and responsibilities	1. Lead the scoping, design, and co-development of projects with Business, Industry, and Government partners. Develop and facilitate such relationships by liaising between academic colleagues, external partners and the CAMaCS management team to identify and develop research opportunities, proposals, and projects. 2. Conduct individual and collaborative research projects as directed by the centre management. 3. Contribute to the design and execution of projects e.g., timetabling and meeting project milestones, participating in regular discussions with collaborative partners. 4. Identify sources of funding and co-produce research proposals and bids with partners to funders (to Innovate UK), developing an ability to apply for and obtain project funding. 5. Draft reports for non-academic partners and write up and disseminate results of research for a range of technical and non-technical audiences. 6. Contribute to the publication of results in high quality peer reviewed academic literature. 7. Participate in departmental meetings and to prepare and deliver presentations/seminars to the project team, internal and external stakeholders, and funders. 8. Assist with the supervision of postgraduate students and undergraduate project students and (where appropriate) the assessment of student knowledge. 9. Proactively update knowledge and understanding in field or specialism to inform research activity. 10. Disseminate knowledge of research advances through activities such as conference presentations and national or international research visits. You will from time to time be required to undertake other duties of a similar nature as reasonably required by your line manager or the CAMaCS management team. You are required to always follow all University policies and procedures and take account of University guidance.

Person Specification

The Person Specification focuses on the essential and desirable knowledge, skills, experience and qualifications required to undertake the role effectively. This is measured by (a) Application Form, (b) Test/Exercise, (c) Interview, (d) Presentation.

Essential Criterion No.	Essential Criterion Description	Measured by
E1	Hold a PhD (or be nearing completion of a PhD) or equivalent in Computer Science, Statistics, Mathematics, Physics, or a related discipline.	A
E2	Specialist knowledge of subject matter in sufficient depth and breadth to contribute to research programmes and to the development of CAMaCS activities.	A,C & D
E3	Experience of industrial or interdisciplinary research projects and awareness of latest developments in the field of research and in research design.	A,C & D
E4	Potential to publish in high quality, peer reviewed journals.	A,C & D
E5	Ability to contribute to the preparation of and writing of research and grant proposals, to conduct individual and group research work, and to disseminate results to a range of audiences (technical and non-technical).	A,C & D
E6	Excellent oral, interpersonal and written communication skills.	A,C & D
E7	Proficiency in appropriate techniques and relevant IT skills (as appropriate to discipline).	A & C
E8	A commitment to excellence in research and to working within professional and ethical codes of conduct.	A & C
E9	Innovation and development of creative solutions.	A & C
E10	Ability to organise and prioritise own workload to meet required deadlines alongside an ability to work effectively in a team, demonstrating the tenacity required to meet project objectives and overcome obstacles.	A & C

Desirable Criterion No.	Desirable Criterion Description	*Measured by*
D1	Demonstrable leadership skills required to successfully develop, facilitate, and manage relationships and projects with partners from Business, Industry, and Government.	A & C
D2	Post-doctoral experience.	A & C