

RESEARCH STUDENTSHIP

All studentships are highly competitive, and you should ensure (and demonstrate) that there is a good match between your own qualifications and interests and those being sought for the particular studentship.

Research School where studentship will be held	Computer Science Research Centre, Faculty of Natural Sciences, Keele University.		
Studentship reference	FNS_BAlBander_February24		
Web link to any further information (e.g. Research Institute/School/Faculty)	Computer Science Research Centre: https://www.keele.ac.uk/scm/research/computerscienceresearch/ Faculty Research Office: https://www.keele.ac.uk/natsci/research/		
Research topic or field - title	Enhancing Structural Health Monitoring with eXplainable Artificial Intelligence		
Research topic or field full description (or attached document).			



Expected start date	Available now		
Mode of attendance	Full-time, Part-time, Distance-learning (FT/PT)		
Funding support available – Fees, stipend, duration	Self-funded: Please note that self-funded applicants must provide funding for both tuition fees and living expenses for the 3-year duration of the research. There is a future possibility of competitive scholarship awards for outstanding applicants. However, none are currently available. For information regarding University tuition fees, please see: http://www.keele.ac.uk/pgresearch/feesandfinance/		
	Students are also provided with access to Faculty research training funds for research related expenses including - but not limited to - conference attendance, external training courses.		
Source of funding	This opportunity is for self-funded applicants only (for example, international students with government or industry sponsorship and UK students with Doctoral Loan funding: https://www.gov.uk/doctoral-loan).		
Eligibility criteria	Applications are welcomed from Computer Science/Engineering graduates with (or anticipating) at least a 2.1 honours degree or equivalent. Applicants should have good computing skills and an enthusiasm for coding, designing, and testing. They should be s motivated and able to work independently and as part of a team.		
	This opportunity is open to UK/EU and overseas students. The collaborative and presentation aspects of the research require good English language and communication skills. Overseas applicants would, therefore, require an English IELTS (or equivalent) of 6.0 overall with no less than 5.5 in any subtest.		
Terms and conditions of studentship	As per the University Code of Practice		
Number of studentships available	N/A		
Application details	Please go to http://www.keele.ac.uk/pgresearch/studentships/ and click on the "Apply online here" button in this studentship. Please quote FNS_BAIBander_February24 on your application.		
Closing date for applications	Applications are welcome all year round.		
Contact for further information and to whom applications will be sent Informal enquiries about the project are very welcome by email to Dr Baidaa A (b.al-bander@keele.ac.uk) and Dr Rwayda Al Hamd (r.al-hamd@abertay.ac.uk) applications should be submitted to: https://www.keele.ac.uk/study/postgraduateresearch/researchareas/computers			
	(For candidate profile, please see page 3 of this advert)		



Candidate profile

	Essential	Desirable
Qualifications, Experience and Skills	Applications are welcomed from Computer Science/Engineering graduates with (or anticipating) at least a 2.1 honours degree or equivalent.	Knowledge of fire dynamics and behaviour in structures would be beneficial for understanding the context of the data and enhancing the accuracy of predictive models.
	Good knowledge in AI, machine learning, computer vision techniques is essential for developing algorithms to analyse fire data and predict building behaviour.	
	Proficiency in programming languages such as Python is necessary for implementing AI algorithms, processing datasets, and developing solutions.	
Attitude and Personality	Applicants should have an enthusiasm for design and experimentation as well as a willingness to acquire new skills. Ideally, applicants will be self-motivated and have the ability to work both independently and as part of a team.	
	Good interpersonal skills	
	Ability to initiate, plan, organise, implement and deliver programmes of work	
	Willingness to learn new skills	

Keele University values diversity, and is committed to ensuring equality of opportunity. In support of these commitments, Keele University particularly welcomes applications from women and from individuals of black and ethnic minority backgrounds for this post. More information is available on these web pages:

https://www.keele.ac.uk/equalitydiversity/

 $\underline{\text{https://www.keele.ac.}}\underline{\text{uk/raceequalitycharter/disabilityconfident/}}$