

Informa	ormation on Postgraduate Research Scholarship - Ref: M ³ 4Impact Engineering and Science Department: Computing and Mathematical Sciences or: Dr Bardia Mashhoodi PhD Position in Advanced Spatial Data Analysis for Urban Energy Storage in U.K. Cities				
Faculty:	Engineering and Science	Department:			
Lead Supervisor:	Dr Bardia Mashhoodi				
Project Title:					
Project Description:	Dr Bardia Mashhoodi PhD Position in Advanced Spatial Data Analysis for Urban Energy Storage				

Bursary ava	Bursary available (subject to satisfactory performance):				
Duration:	Up to 4 years, Full-Time Study				
	 Expanding Excellence in England (E3) grant initiative. As part of this team, you will benefit from cutting-edge training, collaboration opportunities, and access to world-class research resources. This PhD offers an exciting opportunity for researchers passionate about urban sustainability, geospatial analysis, and computational methods. If you are eager to contribute to ground-breaking research on global urban inequalities, we encourage you to apply! 				
	You will join the Computational Science and Engineering Group (CSEG) —a dynamic research team with expertise in numerical modelling, urban analytics, and digital cities . CSEG plays a central role in M³4Impact , a prestigious £9 million				
	Research Environment & Benefits				
	By exploring these dimensions, the PhD research aims to provide a holistic understanding of how energy storage technologies can be tailored to the unique geographic, infrastructural, and societal contexts of urban areas, ultimately supporting the transition to resilient, low-carbon energy systems in U.K. cities and beyond.				
	 (c) GIS-based Multicriteria Decision Analysis (MCDA): The candidate will integrate diverse spatial data from the previous steps and conduct a GIS-based MCDA to identify potential locations for energy storage in U.K. cities under different scenarios. 				
	(b) Potential Estimation via Advanced Spatial Data Analytics and GeoAl: – The candidate will leverage rich spatial datasets in the U.K. along with machine learning and GeoAl techniques to analyze satellite and street view imagery, map spatial patterns, and develop predictive models.				
	water, wind), installation and operational costs, landscape appreciation, and public acceptance.				

Rates below are for full time (FT) mode, part time (PT) is pro rata.

Year 1: £23,237 (£19,237 UKRI rate + London weighting = £2,000 + Enhanced bursary = £2,000) Year 2: In line with UKRI rate + London weighting = $\pm 2,000$ + Enhanced bursary = $\pm 2,000$ Year 3: In line with UKRI rate + London weighting = £2,000 + Enhanced bursary = £2,000 Year 4*: In line with UKRI rate + London weighting = £2,000 + Enhanced bursary = £2,000

In addition, the successful candidate will receive a contribution to tuition fees, equivalent to the University Home Rate, currently £4,712 (FT) or pro-rata (PT), for the duration of their scholarship. International applicants may need to pay the remainder tuition fee for the duration of their scholarship.

This fee is subject to an annual increase.

* The bursary is for 3 years with a potential extension of up to a maximum of 12 months. Funding extensions may be granted if the student demonstrates, to the satisfaction of the M³4Impact Principal Investigators and PhD supervisors, that the thesis can be completed during the granted extension period.

Criteri	a:		E or D		
Educa	tion and Training:				
•	1 st Class or 2 nd class, First D	ivision (Upper Second Class) honours degree or a	E		
	taught master's degree wit	h a minimum average of 60% in all areas of			
	assessment (UK or UK equi	ssment (UK or UK equivalent) in a relevant area to the proposed research			
	project				
•	• For those whose first language is not English and/or if from a country where				
	English is not the majority spoken language (as recognised by the UKBA), a				
	language proficiency score of at least IELTS 6.5 (in all elements of the test) or				
	an equivalent UK VISA and Immigration secure English Language Test is				
	required, if your programm	e falls within the faculty of Engineering and			
	Science a language proficiency score of at least IELTS 6.5 overall with a				
	minimum of 6.0 in all elements of the test or an equivalent UK VISA and Immigration secure English Language Test is required. Unless the degree				
	above was taught in English	n <u>and</u> obtained in a majority English speaking			
	country, e.g. UK, USA, Aust	ralia, New Zealand, etc, as recognised by the			
	UKBA.				
Experi	ence & Skills:				
•	Previous experience of undertaking research (e.g. undergraduate or taught				
	master's dissertation)		E		
•	Experience in a related discipline e.g.				
•	Environmental Science				
•	Mathematical Modelling				
•	Experience in spatial analyses software (ArcGIS, QGIS)				
٠	Experience in programming in R or python				
٠	Experience of Machine Learning and Statistics				
Persor	nal Attributes:				
٠	• Understands the fundamental differences between a taught degree and a				
	research degree in terms of approach and personal discipline/motivation				
٠	Able to, under guidance, complete independent work successfully				
Other	Requirements:		·		
•	This scholarship may require Academic Technology Approval Scheme				
	approval for the successful	candidate if from outside of the EU/EEA	E		
• Start date is flexible and will be agreed with supervisory team and M ³ 4Impact			-		
	Programme Leads		E		
Closin	g date for applications:	8 th June 2025	•		
	rther information	Du Davdia Mashhaadi /h mashhaadi@anaamiisha			
conta	ct:	Dr Bardia Mashhoodi (b.mashhoodi@greenwich.a	ic.ukj		

Please read this information before making an application. Information on the application process is available at: <u>https://www.gre.ac.uk/research/study/apply/application-process</u>. Applications need to be made online via this link. **No other form of application will be considered**.

All applications **must include** the following information. **Applications not containing these documents will not be considered.**

- Scholarship Reference Number (*M³4Impact*) Clearly included "M³4Impact" in the personal statement section together with your personal statement as to why you are applying and the PhD project title.
- a CV including 2 referees *
- academic qualification certificates/transcripts and IELTs/English Language certificate if you are an international applicant or if English is not your first language or you are from a country where English is not the majority spoken language as defined by the UK Border Agency *

*upload to the qualification section of the application form. Attachments must be a PDF format.

Before submitting your application, you are encouraged to liaise with the Lead Supervisor on the details above.