

aculty:	Engineering and Science	Department:	Computing and Mathematica Sciences		
₋ead Supervisor:	Dr Jian Zhong				
Project Title:	Modelling high resolution spatial and temporal temperature variations in London				
Project Description:	compared to the surroun temperature difference is (UHI), population density a urbanised areas is a key ri given the increase in globa urban overheating is increa climate mitigation. Spatial and temporal tem the land use types, urban building and traffic), topo aims to quantify the impar change of planning codes change - on the mitigation literature review on urban vulnerabilities, 2) to confi resolution ADMS-Urban clin effects using London as a c urban planning scenarios. The PhD will primarily be climate models to unders scenarios. As a member o (CSEG), the successful app in numerical modelling, m of the team's esteem, CSE million Expanding Excellen its world-leading research of a dynamic growing rese initiatives funded by this g	ding sub-urban an affected by various and aerodynamic ro isk for human healt il temperature and u asingly recognised a perature variations n morphology, ant ography and meteo cts of urban plannir and building envelo to of overheating. Sp an heat and spatia igure baseline urba mate model and/or ase study, and 3) to computational, util tand and predict th of the Computation policant will join a ten taterial processing, EG is core to the Mince in England (E3) n. The successful ca earch group, and so grant.	gical equivalent temperature (PET d rural areas. The urban-rural a s factors such as urban heat islan ughness length. Overheating of the h and productivity of the workers urbanisation rate. The mitigation of s a challenge in urban planning an s in urban heat can be induced b hropogenic heat emissions (from prological conditions. This project ong scenarios —such as densification opes, redevelopment and land us recific objectives are: 1) to conduct I strategies to mitigate heatway on climate models (based on hig WRF model) which can capture UF run modelling scenarios for a list of al Science and Engineering Group am with many years of expertise and digital cities. As a measure ³ Almpact programme, a £9 grant, won recently, to expand ndidate would therefore be part o benefit from training and other		
Duration: Bursary available	Up to 4 years, Full-Time S e (subject to satisfactory	•			
-	or full time (FT) mode.				
-			+ Enhanced bursary = £2,000)		
fear 2: In line with fear 3: In line with	UKRI rate + London weight	-	•		

In addition, the successful candidate will receive a contribution to tuition fees, equivalent to the University Home Rate, currently £5, 006 (FT), 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.

Person Specification of Essential (E) or Desirable (D) requirements: Criteria:			
	tion and Training:	E or D	
٠	1 st Class or 2 nd class, First Division (Upper Second Class) honours degree or a		
	taught master's degree with an average of 60% overall in all areas of		
	assessment (UK or UK equivalent) in a relevant area to the proposed research	E	
	project		
٠	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 programme 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	E	
	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 <u>and</u>		
	obtained in a majority English speaking country, e.g. UK, USA, Australia, New		
	Zealand, etc, as recognised by the UKBA.		
İxperi	ence & Skills:		
٠	Previous experience of undertaking research (e.g. undergraduate or taught	E	
	master's dissertation)	-	
٠	Experience in a related discipline e.g.		
٠	Environmental Science	E	
٠	Mathematical Modelling		
٠	Experience in programming in R, Fortran or python	D	
٠	Experience of numerical modelling techniques and visualisation (e.g. GIS)	D	
٠	Experience of numerical modelling packages, e.g. ADMS-Urban, WRF, or	_	
	equivalent	D	
Persor	al Attributes:	1	
•	Understands the fundamental differences between a taught degree and a	E	
	research degree in terms of approach and personal discipline/motivation		
٠	Able to, under guidance, complete independent work successfully	Ε	
Other	Requirements:	1	
٠	This scholarship may require Academic Technology Approval Scheme approval	E	
	for the successful candidate if from outside of the EU/EEA	Ľ	

 Start date is flexible and will be agreed with supervisory team and M³4Impact 					
Programme Leads					
Closing date for applications:	01 st July 2025				
For further information contact:	Dr Jian Zhong (jian.zhong@greenwich.ac.uk)				
Making an application: 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 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.					