Information on Postgraduate Research Scholarship Ref: FS-ES-04-2027-3			
Faculty:	FES	**School:**	Engineering
Lead Supervisor:	Dr. Carlos Jimenez-Bescos		
Project Title:	Adapting to heatwave. A workflow blending outdoor and indoor environments		
Project Description:	This research focuses on providing an adaptation workflow for residential properties to cope with the events of heatwaves blending an outdoor/indoor integration. The objectives of the research are: ➢ Develop an urban model to analyse the effect of heatwaves on the outdoor environment. ➢ Validate the model with remote sensing data for different time periods and locations. ➢ Investigate heat transfer from outdoor to indoor on selected neighborhoods, through building simulation. ➢ Validate building simulations based on data monitoring and/or EPCs. ➢ Propose a decision tool to propose different adaptation techniques for heatwaves, based on location, climate and construction. This study will bring together two areas that interrelate to each other, but which are normally treated separately, outdoor and indoor environments. In the case of heatwaves, which become longer and more frequent, the outdoor environment is influencing the indoor environment in houses as it is warming up. To understand the real impact of heatwaves to be able to adapt, building simulations must be supplemented by an understanding of the conditions at urban level. By coupling together outdoor and indoor environments, the research can evaluate how adaptation techniques will influence the indoor conditions inside properties This innovative research supports the University of Greenwich Strategy 2030 by promoting multidisciplinary research collaboration with external organisations. The research brings together digital engineering, climate resilience, urban scale simulation and building simulation. This research will provide sustainable and reproducible approaches, which can be transferred across the world. The outcomes from this research will make positive impacts to societies by providing a policy-making baseline for cities and neighborhoods to adapt to heatwaves and create resilience to climate change; this aligns with the UN Sustainable Development Goals. **This scholarship is awarded competitively, and all applications are carefully reviewed. While we cannot guarantee an offer, we encourage strong candidates to apply.**		
Duration:	3 years, full-time study 6 years, part-time study		

Support available (subject to satisfactory performance):

For Home students

- A full tuition fee waiver at the Home student rate for the duration of the scholarship.

For International students

- 50% tuition fee waiver against the International student rate for the duration of the scholarship.

Important information

- Tuition fees are subject to annual review and may increase during the course of study.
- This scholarship covers tuition fees only and does not include funding for living, accommodation, or maintenance costs.

Person Specification of Essential (E) or Desirable (D) requirements:

Criteria:	**E or D**
Education and Training:	
• 1st Class or 2nd class, First Division (Upper Second Class) honours degree or a taught master's degree with a minimum average of 60% in all areas of assessment (UK or UK equivalent) in a relevant area to the proposed research project	**E**
• 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 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 **and** obtained in a majority English speaking country, e.g. UK, USA, Australia, New Zealand, etc, as recognised by the UKBA.	**E**
Experience & Skills:	
• Previous experience of undertaking research (e.g. undergraduate or taught master's dissertation)	**E**
• Proficiency in building physics and thermal comfort	**E**
• Previous knowledge on Building Energy Simulation	**E**
• Programming skills (e.g., Python, RStudio, or MATLAB)	**E**
• Familiarity with urban scale simulations	**D**
Personal Attributes:	
• Understands the fundamental differences between a taught degree and a research degree in terms of approach and personal discipline/motivation	**E**
• Able to, under guidance, complete independent work successfully	**E**
Other Requirements:	

• This scholarship may require Academic Technology Approval Scheme approval for the successful candidate if from outside of the EU/EEA	**E**
• The scholarship must commence before 5th April 2027	**E**
Closing date for applications:	**Midnight UTC on 30th November 2026**
For further information contact:	**Dr. Carlos Jimenez-Bescos (C.J.JimenezBescos@greenwich.ac.uk)**

Making an application:

Please read this information before making an application. Information on the application process is available at: https://www.gre.ac.uk/research/study/apply/application-process. 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 (FS-ES-04-2027-3)**– included 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, 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.