Information on Postgraduate Research Scholarship - Ref: VCS-FLAS-04-22

Faculty:	FLAS	**Department:**	School of Design
Lead Supervisor:	Dr Sarah Milliken		
Project Title:	Extreme Aquaponic Farming		
Project Description:	This scholarship centres on the significant potential for aquaponics to provide fish and vegetable produce in extreme conditions, where water resources are scarce and the soils lack nutrients. The research will investigate the use of aquaponic waters and effluents to provide nutrients in Earth-based regoliths to grow food in areas where little or no food can be grown at present, and on simulated regoliths from the Moon and Mars. The only way that communities will be able to live in permanent settlements on the Moon and Mars is if fresh, nutritious food can be produced in situ. The research will also investigate a diet for tilapia that is sourced from the hydroponic part of the aquaponic system and from the agricultural system which has been fertilized using fish and composted vegetal waste. The chosen person will be expected to work 40 hours per week and some of this may need to be at weekends, as fish welfare and the experiments will need to be monitored. This is an amazing opportunity to help drive forward your and our ambitions towards sustainable food production in some of the most inhospitable places on Earth, and also to reach for the stars by demonstrating how aquaponics could provide fish and a range of fresh produce for settlers on the Moon and Mars. The Aquaponics Group and Laboratories at the University of Greenwich are at the forefront of aquaponic research in Europe. The EU Aquaponics Hub initiated by the Group created over 50 videos, numerous peer reviewed papers and an open access book (Aquaponic Food Productions Systems – Springer Nature) that have advanced knowledge about aquaponics around the world.		
Duration:	3 years, Full-Time Study or 6 years, Part-Time Study		

Bursary available (subject to satisfactory performance):

Year 1: £17,668 (FT) or pro-rata (PT) Year 2: In line with UKRI rate Year 3: In line with UKRI rate

In addition, the successful candidate will receive a contribution to tuition fees equivalent to the university's Home rate, currently £4,596 (FT) or pro-rata (PT), for the duration of their scholarship. International applicants will need to pay the remainder tuition fee for the duration of their scholarship.

This fee is subject to an annual increase.

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**
• Knowledge of statistical analysis	**D**
• A background in aquaculture and horticulture	**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 will commence in January 2023	**E**

Closing date for applications:	**30 November 2022**
For further information contact:	**Sarah Milliken (S.Milliken@gre.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 (VCS-FLAS-04-22)**– included in the personal statement section together with your personal statement as to why you are applying
- **a research proposal related to the stated research topic *** Applying for a PhD | What is a Research Proposal - YouTube
- **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.