

Facultur.	Engineering and	Damanton	Food and Martists		
Faculty:	Science – Natural Resources Institute	Department:	Food and Markets		
Lead Supervisor:	Vahid Baeghbali				
Co-Supervisor	Parag Acharya				
Project Title:	Advancing High Moisture Extrusion of Plant Protein blend for Next Generation Meat Analogue (HME4PPB)				
Project Description:	underutilized plant and a (HME) has emerged as a development of next-gen 14(8), 1396). However, th HME to plant proteins be texturization. Current, th understanding how HME sensory properties of pla This PhD project aims to textured plant protein blo optimising the HME proc Medway Food Innovation supported by the \$30m B Imperial College), the car Thermo Fisher twin-screv grade analytical equipme candidate developing ind and learn various analytic food products. Research objectives (inclu Characterize Feed of plant protein f measuring protein Process Optimisa content, pH, meli plant protein ble Design of Experir Product Characte capacities, therm and rheological p methods to assess	s which includes a lagae sources. The transformative properties a clear known and pere is a clear known and pere is lack of scie process drives plant protein blend. explore processore and using underses. Working at the Centre (MFIC; he can be considered will get die wextruder and transformation. This project was the call methods to characteristic and the construction optimise Histomerature, so the construction of the cons	novel alternative proteins from a High Moisture Extrusion rocess technology in the alogues (Ref: Foods, 2025, owledge gap in applicability of a to deliver optimal intific insights on mysicochemical, texture, and algae by the cutting-edge facilities of the ttps://mfic.gre.ac.uk) and fustainable Protein (led by rect hands-on exposure to ruraining to use other industry-yould offer the selected ills to optimise HME process naracterise quality attributes of the total control of the selected in		

	The project will generate 3*/4* publications and provide the student networking opportunity with various UK hubs involved in alternative protein research and gain transferable skills to help with future employment opportunity in this emerging area.
Duration:	3 years, Full-Time Study

Bursary available (subject to satisfactory performance):

Year 1: £20,780 (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 cover the tuition fees equivalent to the university's **home rate (UK)**, currently £5,006 (FT) or pro-rata (PT), for the duration of their scholarship. **International applicants** will need to pay the remainder of tuition fee for the duration of their scholarship.

This fee is subject to an annual increase.

Full bursary is available via funding from Bezos Centre for Sustainable Protein (PID B0737)

Criteria:	Person Specification of Essential (E) or Desirable (D) requirements:			
1st 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 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. Experience & Skills: Previous hands-on experience of undertaking laboratory research (e.g. laboratory-based master's dissertation). Master's degree (MSc) in Food Science, Food Engineering, Chemical Engineering, Biosystems Engineering, or a closely related discipline. Experience with laboratory techniques and equipment for food processing and analysis (e.g., food product development, texture analysis, rheology, spectroscopy, microscopy, etc.).	Criteria:	E or D		
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 Familiarity with alternative protein sources (e.g., plant-based, algae, microbial, insect, or precision-fermented proteins). 			
 Publication Record: Co-authored publications at reputable journals, and posters, or conference presentations. 			
 Experience working with or with product development roles. 	Experience working with or within the rood industry, particularly in hab or		
Personal Attributes:			
 Good attention to details, perso 	Good attention to details, personal discipline and motivation		
Able to, under guidance, complete independent work successfully		E	
Ability to work collaboratively in	Ability to work collaboratively in multidisciplinary teams.		
 Strong interpersonal skills and ability to work effectively as part of a research team. 		D	
Other Requirements:			
	ory-based position. The successful candidate is		
and should therefore be prepare	expected to work primarily at the Medway Food Innovation Centre laboratories and should therefore be prepared to either commute daily to the Medway Campus or relocate to the Medway area.		
This scholarship may require Action for the successful candidate if from the successful candidate if the successful candidate if the successful candidate in the success	ademic Technology Approval Scheme approval om outside of the EU/EEA	E	
Closing date for applications:	midnight UTC on 29/08/2025		
For further information contact:	v.baeghbali@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 (Bezos-NRI-01-25)— 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 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 *

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

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