

Information on Postgraduate Research Scholarship - Ref: N/A			
Faculty:	Engineering and Science	School:	Science
Lead supervisor:	Dr Asma Buanz		
Project title:	Fabrication of three-dimensional printed drug-eluting devices for women's health applications		
Project Description: (500 words)	<p>Advancements in 3-dimensional printing (3DP) technologies and material science have contributed to the efforts to achieve local delivery of drugs to specific disease sites with minimal systemic effects such as with Implantable drug delivery devices. The technology offers the unique opportunity to create complex designs, but limited research has been done to 3D print drug loaded implants for women's health applications. Therefore, the aim of this project will be to develop 3D printed drug-eluting implants for women's health applications to achieve tailored drug release profiles. A systematic investigation of key process parameters impacting drug release will be performed.</p> <p>Based at the School of Science at the University of Greenwich (Medway campus), the successful candidate will join a diverse community of researchers. The research training for the student will be divided into two main areas:</p> <ol style="list-style-type: none"> 1. Technical training <ol style="list-style-type: none"> a. Practical training on experimental design, 3D printing techniques including using CAD software packages and printing software packages. This is in addition to characterisation techniques such as mechanical analysis and in vitro testing. b. Students will be guided, encouraged, and supported in applying to external technical training courses relevant to the project. 2. Research communication and impact <p>Training and mentoring focusing on communicating research output (such as peer-reviewed publications and conferences) and potential impact will be provided to complement additional training provided as part of the University of Greenwich doctoral training organised by the university's Research & Enterprise Training Institute (RETI).</p> 		
Duration	3 years, Full-Time Study		
Bursary available (subject to satisfactory performance): This is a self-funded project.			
Person Specification of Essential (E) or Desirable (D) requirements:			
Criteria:			E or D
Education and Training:			
A first- or upper-class Honours degree or equivalent and/or MSc in pharmaceutical sciences/pharmacy or closely related disciplines at merit or better with minimum of 60% in all areas of assessment for Taught MSc degrees.			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:			
<ul style="list-style-type: none"> • Previous experience of undertaking research (e.g. undergraduate or taught master's dissertation) 			E
<ul style="list-style-type: none"> • Prior research using additive manufacturing 			D
Personal Attributes:			

<ul style="list-style-type: none"> Understands the fundamental differences between a taught degree and a research degree in terms of approach and personal discipline/motivation 	E
<ul style="list-style-type: none"> Able to, under guidance, complete independent work successfully 	E
Other Requirements:	
<ul style="list-style-type: none"> This scholarship may require Academic Technology Approval Scheme approval for the successful candidate 	E
Closing date for applications:	midnight UTC on 31/10/2024
For further information contact:	Dr Asma Buanz (a.buanz@gre.ac.uk)
<p>Making an application:</p> <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Your personal statement as to why you are applying (including project title in the personal statement section) 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 * <p>*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. Submitting a detailed research proposal along with your application will potentially increase the chance of being shortlisted.</p> <p>Post is open until 31 October 2024 but may be filled earlier if a suitable candidate is found.</p>	