

Information on Postgraduate Research Scholarship - Ref: VCS-FBUS-02-20

Faculty: Business

Department: Systems Management and Strategy

Lead Supervisor: Prof. Li Zhou

Project Title: Big-data driven decision making in demand responsive supply chains

Project Description:

One of the biggest challenges in supply chain management is to meet customer demand in time. It becomes even more challenging in an emergency environment. For example, during the beginning of the pandemic, demand for toilet paper, sanitation and disinfectant products hit rocket high, which resulted in the whole supply chain experiencing problems such as sourcing materials, managing manufacture and logistics capacity, and coordinating between upstream and downstream counterparts. With the on-going pandemic, uncertainties in the supply chains continue. The traditional supply chain management strategies such as lean and agile are struggling to fit the new norms. There is an urgent need to develop new strategy that can better handle demand responsive supply chain.

Big-data analytics plays a key role in capturing demand changes and making real-time decisions. This project aims to develop big-data analytics framework and machine learning models that can help managers make prompt decisions in demand responsive supply chains. We are looking for an ambitious junior researcher to join us. He/she is expected to either have good experience with Python or R or equivalent skills, or has a good understanding of supply chain management, although ideally, both.

Duration: **3 years, Full-Time Study**

Bursary available (subject to satisfactory performance):

Year 1: £15,285

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 £4,407, for the duration of their scholarship. International applicants will need to pay the remainder tuition fee, currently £10,593, 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:	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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, 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 masters dissertation) 	E
<ul style="list-style-type: none"> Good understanding of supply chain management 	E
<ul style="list-style-type: none"> Good understanding and some skills with business analytics 	E
<ul style="list-style-type: none"> Experience with data science programming language Python, R, or equivalent 	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 if from outside of the EU/EEA 	E
<ul style="list-style-type: none"> A PhD project research proposal that is related to the research area 	E
<ul style="list-style-type: none"> The scholarship must commence before 	E

Closing date for applications: *midnight UTC on 19th October 2020*

For further information contact: Prof. Li Zhou E-mail: Li.Zhou@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 (Ref)**– included in the personal statement section together with your personal statement as to why you are applying
- **a research proposal related to the subject topic ***
- **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.