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| **UNIVERSITY OF NOTTINGHAM NINGBO, CHINA**  **RECRUITMENT ROLE PROFILE FORM** |

**Job Title:** Assistant Professor (Lecturer) in Control of Aerospace Systems

**Job Level:** Research and Teaching - Level 5

**Contract Status:** This full-time post will initially be offered on a fixed term contract with the University of Nottingham Ningbo China for a period of five years starting from September 2020. This contract may be extended on an indefinite basis by mutual agreement.

**Salary & Benefits:** Salary will be within the range of £36,914 - £49,553 per annum, depending on qualifications and experience (salary progression beyond this is subject to performance). In addition, an attractive package including accommodation allowance, travel allowance and insurance will be provided for international appointments.

**Location:** University of Nottingham Ningbo China

**Job Outline:**

The successful candidate will be expected to contribute to teaching and curriculum development for undergraduate and postgraduate programmes and to supervise undergraduate and masters dissertations. The person appointed will be expected to conduct original research in appropriate fields and play a lead role in collaborative research projects, leading to high quality publications and grant income. The successful candidate will also be expected to assist with the administration of the School of Aerospace and the Faculty of Science and Engineering in general and thus contribute to the School’s growth in the field of Aerospace Engineering.

This post is related to the teaching of undergraduate / postgraduate courses in the field of Control of Aerospace Systems, where the key principles of control of systems, with a strong focus on aerospace applications will be the main outcomes. The teaching content will cover topics such as 1) the fundamentals of systems control design, including closed and open loop control design principles, design of plants etc… 2) the fundamentals of aerospace electrical and electronic systems including power generation and conversion, electric machines and drives, and flight control actuation systems and 3) digital and analogue control systems.

The successful candidate will be expected to have extensive research experience and expertise in Electrical and Electronic Engineering and/or Control Engineering with a focus on the More Electric Aircraft or similar initiatives. Candidates with expertise in Electrical Machines and Drives for Aerospace and in Control Systems for Aerospace are highly encouraged to apply. The successful candidate will be expected to join the Power Electronics, Machines and Control (PEMC) Group which is a leading, research group in the area of electrification of aircraft. The PEMC group is the leading factor behind the Provincial Key Lab in More Electric Aircraft technologies of Zhejiang Province.

# Main Duties and Responsibilities:

**Research**

* To undertake ongoing original research in the candidate’s specialist field.
* To publish research in peer reviewed publications.
* To seek internal and external research funding.
* To produce research suitable for dissemination to conferences, workshops and seminars (both national and international).
* To forge collaborative research links within and outside the University.
* To undertake student research supervision.
* To contribute fully to the University’s research activities.

**Teaching**

* To prepare and deliver lectures, seminars and tutorials at undergraduate and postgraduate levels.
* To participate in the assessments for initial and higher degrees and diplomas of the University and to act as invigilator in such examinations as required.
* To contribute to course and curriculum development and design, including course management, where appropriate.
* To support and comply with the University’s teaching quality assurance standards and procedures.

**Administration**

* To liaise, as appropriate, with academic and administrative colleagues at the University’s Nottingham and Malaysia campuses.
* To perform administrative roles related to teaching and research, as determined by the Head of Division/School/Department
* To act as a personal tutor for both undergraduates and postgraduates.
* To take part in and contribute to staff development activities consistent with continuous professional development.
* To ensure compliance with health and safety requirements in all aspects of work.
* Any other duties appropriate to the post.

This job description may be subject to revision following discussion with the person appointed and forms part of the contract of employment.

**Person Specification:**

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|  | **Essential** | **Desirable** |
| **Qualifications/ Education** | * A PhD degree in Electrical Engineering or Control Engineering or Aerospace Engineering | * Registered professional membership of relevant professional bodies |
| **Skills/Training** | * Evidence of expertise in electrification and/or systems control for aircraft * Evidence of knowledge related to Electrical Machines and Drives and/or Systems Control * Evidence of knowledge of the aircraft industry, aircraft classification & configurations, major aerospace research and industrial frameworks etc.. | * Evidence of ability to conduct and lead research at an international level * Evidence of the ability to attract funding for major research projects, independently or as a team. * People management and significant project leadership skills * Evidence of knowledge related to the More/All Electric Aircraft initiatives |
| **Experience** | * Experience of undergraduate and postgraduate student teaching and supervision * Proven research experience in aerospace electrification and/or aerospace systems control | * A track record of grant capture and attracting funding for major research projects. * Relevant industry experience * Experience of teaching/tutorial work in relevant subjects at undergraduate and postgraduate level in an international English speaking institution * A track record of high quality research outputs * Participation in academic networks * Experience in aircraft related research projects * Teaching experience of aerospace related courses |
| **Personal Attributes** | * Ability to work collaboratively in a multidisciplinary environment. * Ability to work effectively in a multi-cultural environment. * Ability and motivation to lead an independent successful research programme. * Ability to work to deadlines and to prioritise tasks. | * Evidence of leadership quality in leading a team to achieve a task/project. * Ability to attract students (undergraduate and postgraduate) to come and study at the University of Nottingham Ningbo China |

Informal enquiries may be addressed to: Dr Michael Galea, Head of School of Aerospace - University of Nottingham Ningbo, China, email: [michael.galea@nottingham.edu.cn](mailto:michael.galea@nottingham.edu.cn). Please note that applications sent directly to this email address will not be accepted.