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

**Job Title:** Assistant Professor (Lecturer) in Aircraft/Airframe Design and Structures

**Job Level:** UNNC 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 or as soon as thereafter. This contract may be extended on an indefinite basis by mutual agreement.

**Salary & Benefits:** Salary will be within the range of RMB411,197 – RMB541,469 per annum, depending on qualifications and experience (salary progression beyond this is subject to performance). In addition, an attractive package including employment support allowance, schooling support 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 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 Mechanical Design and Materials. The teaching activities will cover aspects related to Mechanical Design and Structures and Manufacturing; Product Design and Manufacture; Finite Element Analysis and CAE.

The successful candidate will be expected to have extensive research experience and expertise in Mechanical or Aerospace Engineering with a focus on Mechanical Design and/or Product Design and Manufacture. Candidates with expertise in structure design are highly encouraged to apply. The successful candidate will be expected to join the Advanced Intelligent Manufacturing Research Group (AIMRG) which is a leading, research group in the areas of smart manufacturing processes for high-value industries (e.g. aerospace, automotive, reactive manufacturing, energy materials, medical devices, optical systems, high precision moulding), controllable production processes for energy materials, intelligent supervision and control of manufacturing processes to enable high-throughput of high-value products with minimum defects and energy wastage, automated and flexible manufacturing production systems that minimise that are able to easily adapt to various products specifications with limited human intervention. The AIMRG group is a growing and dynamic research group aiming to achieve world-recognised status in the field of advanced intelligent manufacturing processes in the next 5 years.

# 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 Mechanical, Manufacturing, Industrial Design or Aerospace Engineering
 | * Registered professional membership of relevant professional bodies
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| **Skills/Training** | * Evidence of expertise in Mechanical Design and Manufacturing
* Evidence of expertise in Finite Element Analysis and use of industrial design software such as Solidworks etc.
* Evidence of knowledge related to Mechanical and Aerospace Materials
* Evidence of knowledge of the mechanical industry, major mechanical/aerospace research and industrial frameworks etc.
 | * Evidence of expertise in fluid dynamics, thermo-dynamics, flight control etc.
* Evidence of knowledge related to the implementation and integration of materials in the mechanical structure and design
* Evidence of the 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 project leadership skills
* Evidence of knowledge related to materials, advanced manufacturing technology
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| **Experience** | * Experience of undergraduate and postgraduate student teaching and supervision
* Proven research experience in structures and frames
* Proven research experience in advanced manufacturing technology, metal alloy and composite materials.
 | * 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 mechanical and manufacturing related research projects
* Teaching experience of mechanical engineering related courses
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| **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
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Informal enquiries may be addressed to: Professor Xiaogang Yang or Dr Michael Galea, email: Xiaogang.yang@nottingham.edu.cn, michael.galea@nottingham.edu.cn. Please note that applications sent directly to this email address will not be accepted.