The University of Nottingham seeks applications for a full-time Assistant Professor in Aerospace Design to contribute to teaching on our growing undergraduate taught programs in Aerospace engineering. This role is offered as teaching and learning only. It is anticipated that this might also appeal to someone moving into academia from industry as well as existing academics with a T&L focus.

It is expected that the ideal candidate will have expertise in the area of aerospace design and so applications are particularly welcome from individuals with teaching or industrial experience with the aerospace sector in the area of aerospace design or aircraft systems design.

The role holder will take responsibility for delivering high quality teaching in Aero Group Design module, a flagship level 4 module of the programme, and contributing to the planning, design, development and delivery of materials for undergraduate programmes in the Department. The role will include the development of course curricula and teaching materials as required.

The post holder may also make a significant contribution to the Department/Faculty via leadership and/or administrative management and/or co-ordination of specific initiatives.

### Main responsibilities

(Primary accountabilities and responsibilities expected to fulfil the role)

1. Deliver teaching, administration and leadership roles to a high standard
   - Lead/support the development/delivery of content in the Aerospace Design thematic area, especially Aerospace Group Design Projects, and other subjects as appropriate
   - Plan and deliver high quality teaching at undergraduate and postgraduate levels to enhance the Faculty’s reputation for excellence in teaching.
   - Supervise final year undergraduates and taught postgraduates conducting individual projects
   - Provide tutorials and pastoral care of students.
   - Examine in the assessments for degrees and diplomas of the University
   - To be responsible for administrative duties as required in the leadership and operation of the Department

Deliver any other duties appropriate to the grade and role as required
# Person specification

<table>
<thead>
<tr>
<th>Skills</th>
<th>Essential</th>
<th>Desirable</th>
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</table>
| ▪ Excellent oral and written communication skills, including the ability to communicate complex information with clarity  
▪ Self-starting and pro-active, demonstrating an ability to work alone or in a team to meet deadlines and to prioritise tasks  
▪ Interest in student teaching and learning including the ability to engage constructively with students to facilitate learning | ▪ Ability to teach other subjects within the department  
▪ Capability to teach related modules in the UG Aerospace programme |

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<tr>
<th>Knowledge and experience</th>
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<th>Desirable</th>
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| ▪ Extensive knowledge and skills to teach Aerospace Design at university level  
▪ Extensive knowledge and skills to supervise original, high-quality group projects related to Aerospace Design  
▪ Relevant postdoctoral research experience or appropriate industrial experience | ▪ Relevant teaching experience in higher education |

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<th>Qualifications, certification and training (relevant to role)</th>
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| ▪ PhD in Aerospace Engineering or other relevant discipline  
▪ First degree and/or postgraduate study in Aerospace Engineering or related discipline | ▪ Membership of a professional body where appropriate  
▪ Higher Education teaching qualification or equivalent. |

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.
Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

**Valuing people**
Is always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.

**Taking ownership**
Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.

**Forward thinking**
Driven to question the status quo and explore new ideas, supporting the team to “lead the way” in terms of know-how and learning.

**Professional pride**
Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.

**Always inclusive**
Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

Key relationships with others
### Purpose of role

The University of Nottingham seeks applications for a full-time Associate Professor in Aerospace Design to contribute to teaching on our growing undergraduate taught programs in Aerospace engineering. This role is offered as teaching and learning only. It is anticipated that this might also appeal to someone moving into academia from industry as well as existing academics with a T&L focus.

It is expected that the ideal candidate will have expertise in the area of aerospace design and so applications are particularly welcome from individuals with teaching or industrial experience with the aerospace sector in the area of aerospace design or aircraft systems design.

The role holder will take responsibility for delivering high quality teaching in Aero Group Design module, a flagship level 4 module of the programme, and contributing to the planning, design, development and delivery of materials for undergraduate programmes in the Department of Mechanical, Materials and Manufacturing Engineering. The role will include the development of course curricula and teaching materials as required.

The post holder may also make a significant contribution to the Department/Faculty via leadership and/or administrative management and/or co-ordination of specific initiatives.

### Main responsibilities

(Primary accountabilities and responsibilities expected to fulfil the role)

#### Delivery of teaching

1. Deliver consistently excellent teaching and support for student learning, influencing others via own practice; develop and apply high quality and appropriate teaching techniques and materials related to Aerospace Design thematic area, especially level 4 Aerospace Group Design Projects, and other subjects as appropriate (such as Systems Engineering).
2. Design, develop and deliver a range of programmes of study, sometimes for entirely new courses at various levels; develop business cases based upon market intelligence and commercial knowledge.
3. Be responsible for dealing with referred issues for students within own educational programmes; be responsible for the pastoral care of students and support colleagues in developing their listening, interpersonal and pastoral care skills.
4. Generate income for the institution via contribution to the delivery of high quality programmes attracting high tariff students.
<table>
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<tr>
<th>1</th>
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</table>
| 2 | **Lead the curriculum**  
| - | Provide academic and organisational leadership to those working within Aerospace Engineering programme area.  
| - | Lead on the design and quality control of modules and/or programmes of study in specialist area ensuring the curriculum is up to date and international in its scope.  
| - | Proactively identify the need for developing the aims, delivery or assessment of existing modules and make proposals on how this should be achieved.  
| - | Provide curriculum leadership; design and undertake assessments, marking and feedback.  
| - | Design and undertake assessments, marking and feedback that is robust and valid. Evaluate and respond to feedback to ensure student engagement with assessment. |
| 3 | **Quality Assurance**  
| - | Take responsibility for the quality assurance of programmes of study, in compliance with the quality standards and regulations.  
| - | Monitor student progress and retention; resolve problems affecting the quality of course delivery and student progress within own areas of responsibility. |
| 4 | **Engagement**  
| - | Engage proactively in the scholarship of teaching and learning by providing leadership of teaching and curriculum development.  
| - | Take an evidence-driven approach to curriculum development and implementation of new pedagogies; undertaking research into, and evaluation of, teaching practice and student learning behaviours and academic attainment. |
| 5 | **Development**  
| - | Make a significant contribution to the development of teaching and learning strategies for own Department, School or Faculty; and contribute to the development of teaching and learning policy locally (and to policy debate nationally).  
| - | Lead and develop internal networks.  
| - | Develop the practice of consistently excellent teaching across the academic unit by leading on the dissemination of evidence-informed developments in curriculum delivery, early adoption and promotion of enabling technologies and pedagogies. |
| 6 | **Enabling technologies and teaching methods**  
| - | Acquire and apply expertise in the use of enabling technologies to support student experience and student learning and to support collaborative and efficient working; mentor junior colleagues in the uptake of these technologies.  
| - | Have detailed knowledge and experience of different methods of teaching (e.g. small group, flipped, blended, practice or problem-based). |
| 7 | **Management & administration**  
| - | Undertake leadership roles in academic administration for own department/school or Faculty in areas such as admissions, recruitment, timetabling, examinations, student attendance, and placement.  
| - | Contribute to the overall management of the academic unit e.g. in areas such as budget, resource and people management, business and programme planning.  
| - | Ensure that teams within the academic unit are resourced and work together; act to resolve conflicts within and between teams. |
Other responsibilities

- Line manage staff, undertaking performance review and professional development planning.
- Supervise and examine Postgraduate Taught students within area of expertise
- Be responsible for the safe conduct of work within work area and teaching responsibilities ensuring that the academic unit's arrangements for compliance with the University Safety Policy are implemented.
- Develop relationships with international campuses/partners in order to strengthen teaching collaborations and facilitate knowledge exchange leading to the enhancement of curriculum and student experience.
- Represent department/school on relevant Faculty and University committees and working groups
- Lead on outreach and community engagement activities on behalf of department/school, faculty or university.
- Lead and develop external networks for example with external examiners and assessors and/or other active scholars in disciplinary area and/or higher education pedagogy; develop links with external contacts such as other educational bodies, employers, and professional institutions to foster collaboration and the exploitation and transfer of knowledge.

Person specification

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<td>Ability to design and deliver teaching and learning programmes on Aerospace Design</td>
<td>Ability to teach other subjects within the department</td>
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<td>Extensive knowledge and skills to supervise original, high-quality group projects related to Aerospace Design</td>
<td>Skills in planning and organising resources.</td>
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<td></td>
<td>Proven skills in coaching and developing others in best practice techniques</td>
<td>High level analytical capability</td>
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<td></td>
<td>Development and organisation of teaching activities</td>
<td>Skills in pastoral care and motivation of students at all levels</td>
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Knowledge and experience

Achievement in teaching as shown by:

- A record of excellence in undergraduate and/or graduate teaching; evidence of innovation in curriculum development, course design and course delivery; commitment of delivery of quality services to students
- Involvement in the development of policy and administrative matters within the Faculty and University
- A leading authority in the subject, with a considerable national and growing international reputation

Extensive experience in developing and devising new teaching or research programmes, models, techniques and methods
- Recognised excellence and reputation in the specialist subject area among peers in the UK and developing international reputation
- Extensive track record of published research, development and delivery of teaching units, successful consultancy activities and/or delivery of specialist services to external customers/clients
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<td>- Proven skills of leadership in teaching and curriculum development underpinned by scholarship</td>
<td>- Understanding of resource management processes and the skills to apply them effectively</td>
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<tr>
<td>- An understanding of University management systems and the wider higher education environment</td>
<td>- Record of promoting and maintaining collaborative links with industry, business or the community which have been of demonstrable value to the customer and to the University</td>
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<tr>
<td>- Extensive research and/or teaching experience, supported by relevant PhD and/or HE teaching qualification or recognition against UKPSF, and/or additional experience</td>
<td>- First degree and/or postgraduate study in Aerospace Engineering or related discipline.</td>
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<tr>
<td>- An established reputation in research, teaching or within subject or service specialism</td>
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**Valuing people**
Understands that it is essential to provide a structure that people can thrive in. Knows how to communicate with people to create a healthy working environment and get the best out of people.

**Taking ownership**
Communicates vision clearly, providing direction and focus. Knows how to create a productive environment where people are inspired and can work cross-departmentally in partnership.

**Forward thinking**
Has the ambition to be a pioneer in own area, anticipating the future change, needs and challenges. Knows how to innovate within their work context and champions others to be inspired to be part of this ambition.

**Professional pride**
Keeps up to date on latest thinking, trends and work practices. Supports teams to be thought leaders; willing to challenge if obstacles get in the way.

**Always inclusive**
Establishes far reaching partnerships, well beyond own area across a broad range of networks. Understand role to pay due regard to the needs of the whole community.

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Key relationships with others

- **Line manager**
- **Role holder**
- **Key stakeholder relationships**
  - Technical
  - Colleagues
  - Students