



Job title	Assistant Professor in Aerospace Flight Dynamics and Control	Job family and level	Research & Teaching Extended Level 5
Department	Department of Mechanical, Materials and Manufacturing Engineering	Location	University Park Campus

Purpose of role

The University of Nottingham seeks applications for a full-time Assistant Professor in Aerospace Flight Dynamics and Control to contribute to teaching on our growing undergraduate taught programs in Aerospace engineering. This role is offered as research & teaching where the person appointed would lead relevant research programs complementing and expanding existing capability.

It is expected that the ideal candidate will have expertise in broad areas related to aerospace flight dynamics and control, including but not limited to: aircraft design and performance, dynamics and flight control, advanced flight dynamics and advanced control for air and spacecraft.

The role holder will take responsibility for delivering high quality teaching 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 (R&T) (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Conduct successful research</p> <ul style="list-style-type: none"> ▪ Identify, conduct and lead original research ▪ Seek and secure external research funding through the development of applications to external funding bodies ▪ Conduct and supervise others conducting original research, resulting in high quality publications in nationally and internationally recognised peer reviewed journals ▪ Participate in meetings and conferences in order to disseminate research findings. ▪ Supervise postgraduate research students engaged in original research ▪ To be responsible for administrative duties as required in the leadership and operation of research 	typically 30 – 70% (as part of total which sums up to 100%)

2	<p>Deliver teaching, administration and leadership roles to a high standard</p> <ul style="list-style-type: none"> ▪ Lead/support the development/delivery of content in the Aerospace Flight Dynamics ad Control thematic area and other subjects as appropriate including close liaison with other members of the course development teams. ▪ 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 	<p>typically 30 – 70% (as part of total which sums up to 100%)</p>
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Person specification (R&T)

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Extensive knowledge and skills to teach Aerospace Flight Dynamics and Control at university level ▪ Extensive knowledge and skills to undertake original, high-quality research in the area of aerospace engineering. ▪ 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 	<ul style="list-style-type: none"> ▪ Research track record in an area compatible with current UoN aerospace engineering research ▪ Ability to teach other subjects within the department, particularly on the aerospace engineering course.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Relevant postdoctoral research experience or appropriate industrial experience ▪ Track record of high quality publications in peer reviewed journals 	<ul style="list-style-type: none"> ▪ Experience of implementing teaching activities in aerospace engineering ▪ Experience working in or with industry and/or publicly funded research projects on the national and international level ▪ Experience in grant proposal writing and the acquisition of own research funding and the management and leadership of research programmes ▪ Relevant teaching experience in higher education
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Degree in a relevant discipline ▪ PhD in Aerospace Engineering or other relevant discipline 	<ul style="list-style-type: none"> ▪ First degree and/or postgraduate study in Aerospace Engineering or related discipline.



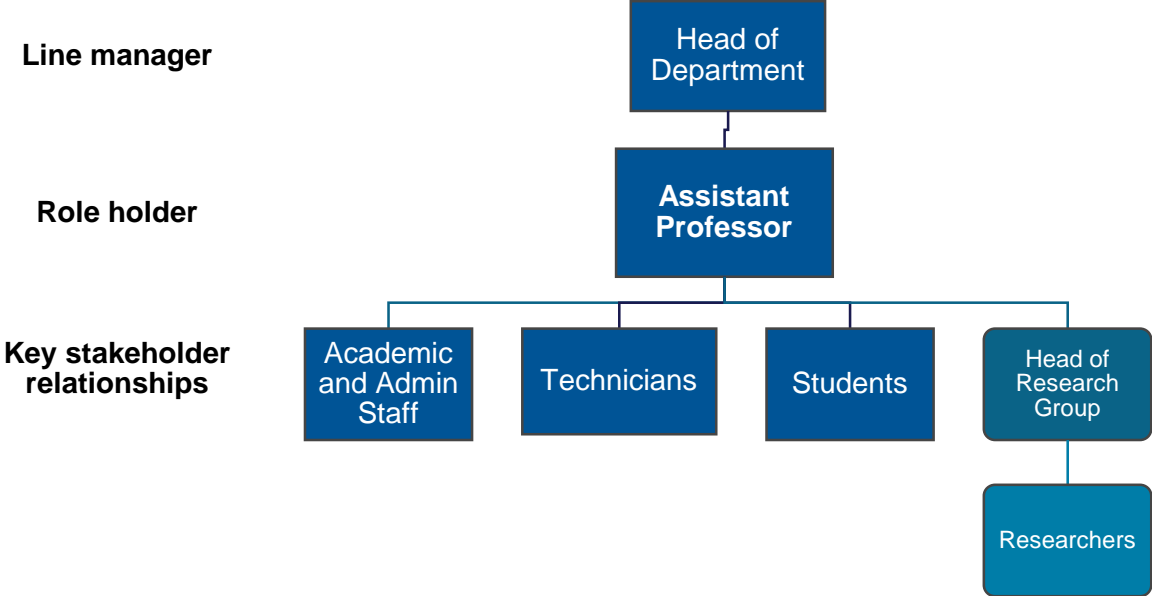
The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality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





Job title	Assistant Professor in Aerospace Flight Dynamics and Control	Job family and level	Teaching & Curriculum Leadership Extended Level 5
Department	Department of Mechanical, Materials and Manufacturing Engineering	Location	University Park Campus

Purpose of role

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It is expected that the ideal candidate will have expertise in broad areas related to aerospace flight dynamics and control, including but not limited to: aircraft design and performance, dynamics and flight control, advanced flight dynamics and advanced control for air and spacecraft.

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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 (T&CL) (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
2	<p>Delivery of teaching</p> <ul style="list-style-type: none"> ▪ Lead/support the development/delivery of content in the Aerospace Flight Dynamics and Control thematic area and other subjects as appropriate including close liaison with other members of the course development teams. ▪ 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 ▪ Undertake design of appropriate assessments, carry out marking and provide feedback that is robust and valid. ▪ Evaluate and respond to student feedback. ▪ Provide tutorials and pastoral care of students. 	80%

2	<p>Enabling technologies and teaching methods</p> <ul style="list-style-type: none"> ▪ Acquire and apply expertise in the use of enabling technologies to support student experience and student learning and to support collaborative and efficient working. ▪ Acquire and apply expertise in different methods of teaching (e.g. small group, flipped, blended, practice or problem-based). 	10 %
3	<p>Management & administration</p> <ul style="list-style-type: none"> ▪ 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. ▪ Be responsible for the safe conduct of work within your work area and teaching responsibilities – ensuring compliance with the University Safety Policy. ▪ Contribute to relevant department committees and working groups. 	10 %

Person specification (T&CL)

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Extensive knowledge and skills to teach Aerospace Flight Dynamics and Control at university level ▪ Extensive knowledge and skills to undertake and deliver high-quality teaching. ▪ 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 ▪ Passion for student teaching and learning including the ability to engage constructively with students to facilitate learning 	<ul style="list-style-type: none"> ▪ Ability to teach other subjects within the department, particularly on the aerospace engineering course.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Appropriate academic and/or industrial experience in Aerospace Flight Dynamics and Control ▪ Significant appropriate industrial and/or academic experience in developing and devising new teaching or research programmes, models, techniques and methods. ▪ Experience of implementing teaching activities in Aerospace Engineering 	<ul style="list-style-type: none"> ▪ Relevant teaching experience in higher education
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Degree in a relevant discipline ▪ PhD in Aerospace Engineering or other relevant discipline 	<ul style="list-style-type: none"> ▪ First degree and/or postgraduate study in Aerospace Engineering or related discipline.



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