

Job title	Assistant Professor in Materials Engineering/Aerospace materials (Teaching & Learning)	Job family and level	Teaching & Learning 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 Materials Engineering/Aerospace Materials to contribute to teaching on our undergraduate taught programs in Aerospace Engineering, Mechanical Engineering, Manufacturing Engineering and Product Design and Manufacture. This role is offered as teaching and learning (T&L) only. This post is offered at Level 5 as it is expected that the successful candidate will have expertise in materials Engineering that is applicable to aerospace applications. Applications are particularly welcome from individuals with experience of teaching and/or industrial practice in this area.

The role holder will take responsibility for delivering high quality teaching in one or more of our undergraduate materials engineering design and manufacture modules, and will contribute 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 (T&L L5) (Primary accountabilities and responsibilities expected to fulfil the role)	%
1	Delivery of teaching <ul style="list-style-type: none"> ▪ Deliver consistently high-quality teaching and support for student learning, influencing others via own practice. ▪ Develop and apply high-quality and appropriate teaching techniques and materials related to Materials Engineering and Aerospace materials. ▪ Be responsible for the pastoral care of students. ▪ Supervise and examine Undergraduate and Postgraduate Taught students within area of expertise. ▪ Design and undertake assessments, marking and feedback that is robust and valid. ▪ Evaluate and respond to student feedback. 	70
2	Engagement <ul style="list-style-type: none"> ▪ Engage proactively in the scholarship of teaching and learning. ▪ Engage in the promotion of our programmes of study and represent the Department of Mechanical, Materials and Manufacturing Engineering at University recruitment events. 	10

3	<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
4	<p>Management & administration</p> <ul style="list-style-type: none"> ▪ Be responsible for administrative duties as required by the Department. ▪ Be responsible for the safe conduct of work within your work area and teaching responsibilities - ensuring compliance with the University Safety Policy. ▪ Work with our international campuses/partners in order to strengthen teaching collaborations and facilitate knowledge exchange leading to the enhancement of curriculum and student experience. ▪ Contribute to relevant department committees and working groups. 	10

Person specification (T&L L5)

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills, including the ability to communicate complex information with clarity. ▪ Excellent professional practise and interpersonal skills. ▪ Self-starting and pro-active, demonstrating the ability to work alone or in a team to meet deadlines and to prioritize tasks. ▪ Expertise in a broad range of Materials Engineering skills. 	<ul style="list-style-type: none"> ▪ Ability to apply materials engineering to aerospace applications in an industrial context ▪ Ability to teach other subjects within the department, particularly engineering design and/or manufacturing. ▪ Skills in planning and organizing resources. ▪ Skills in pastoral care and motivation of students at all levels.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Extensive knowledge and skills to teach Materials Engineering at University level. ▪ Evidence of excellent collegiality and good citizenship in a work environment. 	<ul style="list-style-type: none"> ▪ Knowledge or experience of industrial manufacturing processes and/or engineering design ▪ Knowledge or experience of supervising undergraduate student projects.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ First degree and/or postgraduate study in Materials Engineering or related discipline 	<ul style="list-style-type: none"> ▪ PhD in Materials Engineering or other relevant discipline ▪ Membership of a relevant professional body



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
Shows line management structure and role interactions

