



Job title	Assistant Professor in Applied Mathematics	Job family and level	Research and Teaching Level 5 Extended
School/ Department	School of Mathematical Sciences	Location	University Park Campus

Purpose of role

This role will be held in the School of Mathematical Sciences. The role holder will have a growing national and international reputation in their field and will have the potential to make a significant impact on their specialism/discipline through effective and innovative academic and organisational leadership. The role holder will develop proposals for research projects, which will make a significant impact, leading to an increase in knowledge and understanding and the discovery/development of new explanations, insights, concepts or processes.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Teaching</p> <ul style="list-style-type: none"> ▪ To give instruction through high quality lectures, tutorials, workshops and project supervisions in honors and service modules related to applied mathematics to all levels of undergraduate and postgraduate students ▪ To provide inclusive pastoral support to students through tutoring as required ▪ To develop excellent teaching and learning materials ▪ To examine in the assessments for initial and higher degrees and diplomas of the University 	35%
2	<p>Research</p> <ul style="list-style-type: none"> ▪ To undertake original research of international excellence in a branch of applied mathematics complementing existing activity within the School. Particular areas of interest include, but are not limited to, wave modelling, wave chaos and asymptotics as well as fluid dynamics and complex fluids. Applicants with interests in other areas of industrial and applied mathematics are also encouraged to apply. ▪ To publish results of research in internationally leading peer-reviewed journals ▪ To seek and secure research funding ▪ To supervise and examine postgraduate research students engaged in original research ▪ To disseminate research and teaching findings at international conferences, workshops and meetings 	35%

	<ul style="list-style-type: none"> ▪ To build relationships and collaborate actively with internal and external contacts, nationally and internationally, to complete research projects to advance the discipline and increase knowledge exchange 	
3	<p>Administration</p> <ul style="list-style-type: none"> ▪ To contribute to efficient and effective completion of the work of the School, including undertaking administrative roles ▪ To undertake further training consistent with continuous professional development 	20%
4	Any other duties appropriate to the grade and role of the post holder	10%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information ▪ Good time-management and multi-tasking skills ▪ Good pedagogical skills required to teach a range of applied mathematics (including service) modules at all undergraduate levels and MSc level. Ability to develop excellent teaching and learning materials. ▪ Potential to attract research funding ▪ Potential to supervise research students 	<ul style="list-style-type: none"> ▪ Ability to use and develop appropriate IT-based teaching materials
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience of teaching in Higher Education ▪ Proven track-record in publishing research work of international quality in applied mathematics complementing existing research activity within the School. Particular areas of interest include, but are not limited to wave modelling, fluid dynamics as well as other areas in industrial and applied mathematics ▪ Potential for successful research interaction with other members of the School and more broadly in particular with engineering departments ▪ Experience of presenting to national or international scientific meetings ▪ Potential to develop impact and outreach activities 	<ul style="list-style-type: none"> ▪ Experience of delivering lectures to large groups ▪ Experience of working with industry
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD or equivalent in applied mathematics, mathematical physics, engineering mathematics or a related subject 	



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



