



Job title	Research Associate/Fellow	Job family and level	Research and Teaching Level 4 Training Grade/Level 4
School/ Department	School of Physics and Astronomy	Location	University Park Campus

Purpose of role

To carry out research ways of testing theories of dark energy and modifications to gravity on all scales from cosmological and astrophysical observations to laboratory and collider experiments.

The researcher will be an integral part of a large and diverse team of researchers from both the Particle Cosmology group in the School of Physics and Astronomy, and the Quantum Gravity group in the School of Mathematical Sciences.

The main responsibility of this post will be to carry out independent research on physics of cosmology and gravity. The researcher is also expected to actively contribute to the research activities of the Particle Cosmology group.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	To plan and conduct primary research towards the goals of the research project.	80%
2	To write up research work for publication and contribute to the dissemination of research at scientific conferences. To assist in the dissemination of research outputs to the general public.	10%
3	To identify opportunities and assist in writing bids for research grant applications.	1%
4	To assist where appropriate with supervising undergraduate and postgraduate students projects as appropriate. To participate in the assessment of student knowledge and co-supervise projects at Masters level.	2%
5	To build relationships with both internal and external contacts in order to exchange information, to form relationships for future collaborations and identify potential sources of funds and/or opportunities for collaboration.	2%
6	To develop their own research ideas and collaborate with academic colleagues on areas of shared interest for example, course development, collaborative or joint research projects.	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Proven research track record in at least one of the following: Dark Energy, Modified Gravity, Searches for physics beyond the standard model ▪ Excellent oral and written communication skills, including the ability to communicate complex information with clarity ▪ Ability to build relationships and collaborate with others, both internally and externally 	
Knowledge and experience	<ul style="list-style-type: none"> ▪ Evidence of experience of applying the specialist skills and approaches and techniques required for the role 	<ul style="list-style-type: none"> ▪ Previous success in gaining support for externally funded research projects ▪ Track record of academic publications in a related area to the research proposal at an appropriate level for the career stage ▪ Experience of developing new approaches, models, techniques or methods in research area
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD (or close to completion) in Physics or Mathematics related to the subject ▪ BSc/MPhys Degree (or equivalent) in a Physics 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

