



**UNIVERSITY OF LEEDS**

## **CANDIDATE BRIEF**

**Research Fellow in Multiwavelength Studies of Protoplanetary and Debris Disks, Faculty of Engineering & Physical Sciences**



**Salary: Grade 7 (£33,797 – £40,322 p.a.) due to funding restrictions, an appointment will not be made above £33,797 pa**

**Reference: EPSPA1012**

**Closing date: 21 July 2020**

**Fixed-term for up to 2.5 years**

**We will consider job share / flexible working arrangements**

# Research Fellow in Multiwavelength Studies of Protoplanetary and Debris Disks

## School of Physics and Astronomy

Do you have a background in observational studies of protoplanetary disks? Would you like to further your career in one of the UK's leading research intensive universities?

The project is STFC-funded and the successful candidate will work with Dr Olja Panić, investigating the properties of stars and circumstellar material in a large study across the pre-main sequence and a range of stellar masses. The researcher will use VLT data for over 250 stars obtained by Dr Panić, to characterise young, previously unknown stars and use the diagnostics for gas accretion and hot dust to analyse how discs evolve around intermediate mass stars (1.5-3.5Msun). The project is the first ever unbiased study on this topic.

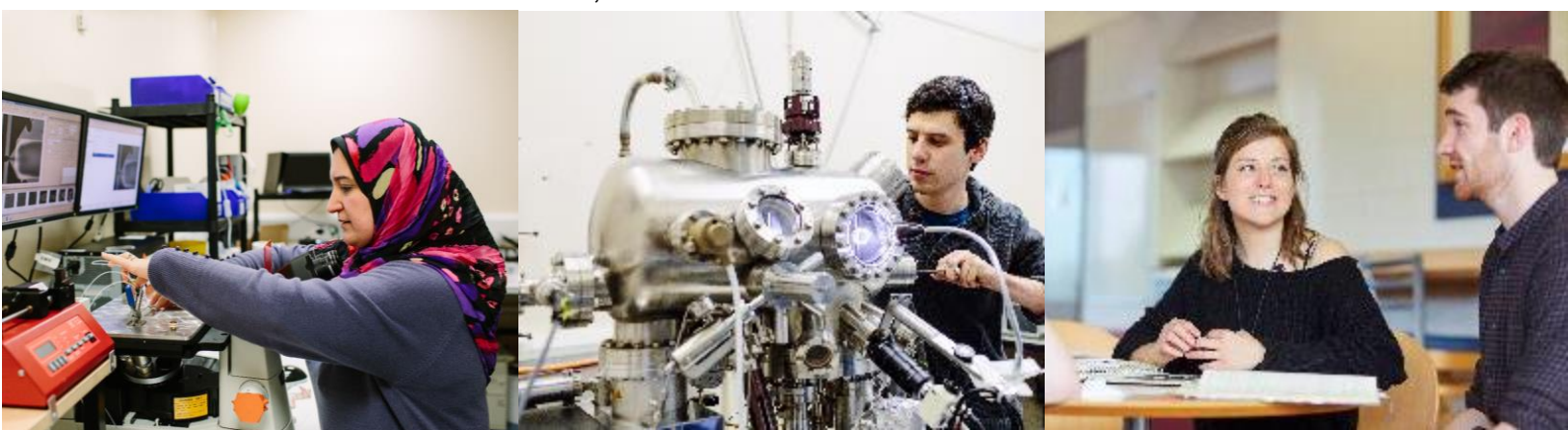
You will have a PhD (or you will have submitted your thesis prior to taking up the appointment) in Astrophysics and demonstrated evidence of independent research and research excellence in the area of Star and Planet Formation.

The Astronomy Group at the University of Leeds is a vibrant research environment with a focus on Star and (Exo-) Planet Formation, consisting of 8 academics and their research groups. The group of Dr Panić focuses on observational and theoretical studies of protoplanetary, circumplanetary and debris disks, with a special focus on the link between disks and giant planet formation.

### What does the role entail?

As a Research Fellow, your main duties will include:

- Designing, planning and conducting a programme of investigations into the evolution of protoplanetary disks using primarily VLT/XSHOOTER observations, in collaboration with Dr Olja Panić;
- Working closely with the Leeds group's active research on studies of protoplanetary disks, using physical disk models and radiative transfer modelling to analyse observational data;
- Contributing to the preparation of observational proposals, with VLT or other observational facilities;



- Making a significant contribution to the dissemination of research results by publication in leading peer-reviewed journals and by presentation at national and international meetings;
- Working independently and as part of a larger team of researchers, both internally and externally to develop new research links and collaborations and engage in knowledge transfer activities where appropriate;
- Contributing to the supervision of less experienced researchers and PhD students;
- Evaluating methods and techniques used and results obtained by other researchers and relating such evaluations to your own research;
- Contributing to and encouraging a safe working environment.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

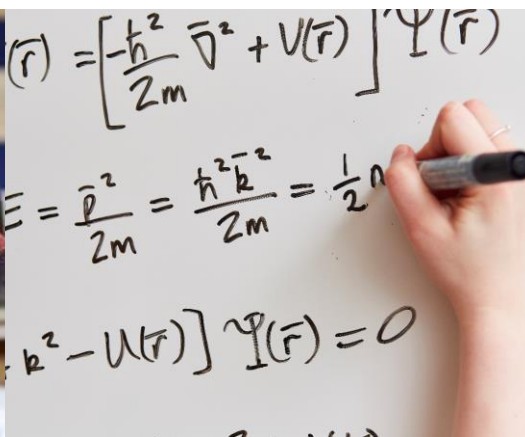
## What will you bring to the role?

As a Research Fellow you will have:

- A PhD (or close to completion / or have submitted your thesis before taking up the role) in Astrophysics or a closely allied discipline;
- A strong background in in star and planet formation;
- Experience in reduction and analysis of XShooter or similar spectroscopic data;
- Evidence of the ability to independently design, execute and write up research;
- A developing track record of peer reviewed publications in international journals;
- Excellent communication skills, both written and verbal and the ability to communicate your research at national and international conferences;
- A strong commitment to your own continuous professional development, and motivation to learn new techniques;
- Good time management and planning skills;

You may also have:

- Experience in spectroscopic studies of young stars and/or their immediate environments;
- Experience in developing physical models of protoplanetary disks;
- Experience in observations of protoplanetary disks;



- Experience in radiative transfer modelling.

## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23.59** (UK time) on the advertised [closing date](#).

## Contact information

To explore the post further or for any queries you may have, please contact:

[Dr Olja Panić](#), School of Physics and Astronomy

Tel: +44 (0)113 343 0054

Email: [O.Panic@leeds.ac.uk](mailto:O.Panic@leeds.ac.uk)

## Faculty and School Information

### A diverse workforce

The Schools in the Faculty of Engineering & Physical Sciences are proud to have been awarded the Athena SWAN [Bronze or Silver](#) Award from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

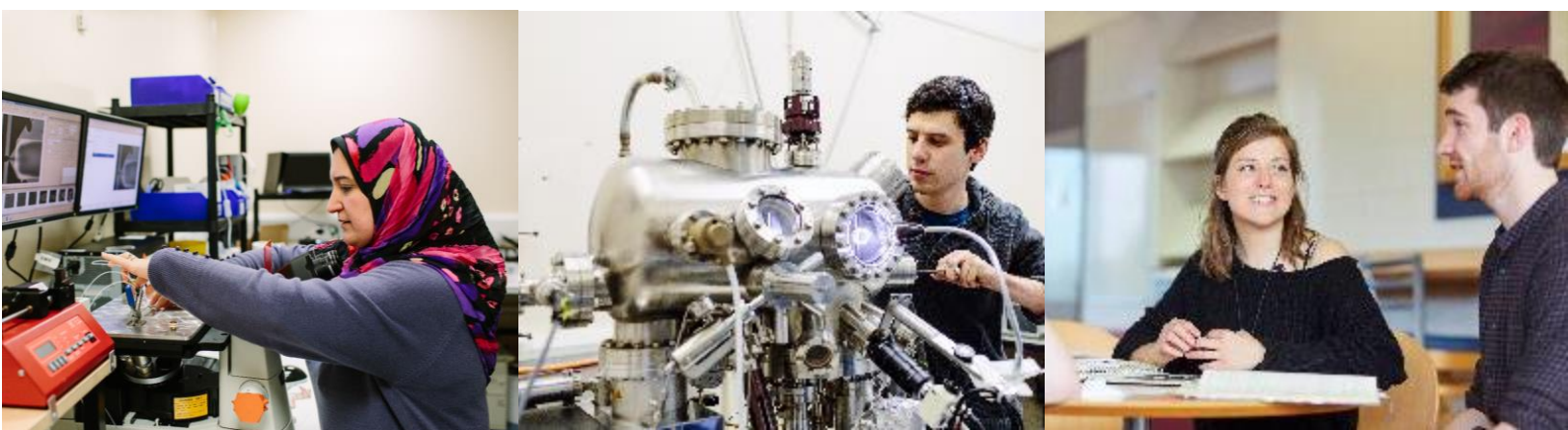
### Working at Leeds

Find out more about the benefits of working at the University and what it is like to live and work in the Leeds area on our [Working at Leeds](#) information page.

### Candidates with disabilities

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk).

## Criminal record information



## Rehabilitation of Offenders Act 1974

A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.

