FACULTY/DIRECTORATE
SCHOOL/DEPARTMENT

Early Stage Researcher

Estimated Salary: £37,450 - £40,317 dependent upon family allowance eligibility and Euro/Sterling exchange rates

FT Fixed Term for 7 months

The Opportunity

This post represents an exciting opportunity for an ambitious individual to join a team of staff in Keele University's Faculty of Natural Sciences.

The successful candidate will work on thermoacoustic instabilities in combustion systems. Such instabilities lead to dangerously high pressure amplitudes and inhibit the development of low-pollution combustion technologies.

You will have a Bachelor's degree (or equivalent) in mathematics, physics or theoretical mechanics as well as a solid background in fluid mechanics and applied mathematics. Analytical and numerical skills are essential.

The position is for 7 months. It will be under the supervision of Prof. Maria Heckl (m.a.heckl@maths.keele.ac.uk), supported by her colleagues of the Physics group.

Applicants must also satisfy the eligibility rules stipulated by the Horizon2020 Guidelines of the European Commission. These can be found in section 3 of https://ec.europa.eu/research/participants/data/ref/h2020/other/guides_for_applicants/h2020-guide-appl-msca-itn_en.pdf
In particular, applicants must be mobile and at an early stage of their career.

The Benefits

The University recognises that its success depends upon the contribution and dedication of its talented staff. In return, we have a competitive benefits package available, including:

- Generous annual leave entitlement with opportunities to purchase additional leave
- Excellent staff pension scheme
- Access to continued personal, professional and career development
- On site 'outstanding' nursery

- Discounted health & fitness facilities on site
- Cycle to work scheme (subject to eligibility)

The University is committed to operating flexible working practices wherever possible.

The University
Keele University is renowned for its exciting approach to higher education, innovative research, beautiful campus, strong community spirit and excellent student experience. With a turnover in excess of £170 million, over 10,000 students and a total staff of approximately 2000, the University provides high quality teaching across a wide range of academic and vocational subjects and promotes world-class research. Further information can be found at https://www.keele.ac.uk/about/

At the Applied Physics Division of Keele University, an ESR position (early-stage researcher) is offered on "Nonlinear coupling of thermoacoustic modes modelled by a Green's function approach". The key duties and responsibilities of the position are to obtain physical insight into the nonlinear coupling of thermoacoustic modes in a combustion system and to identify key parameters responsible for mode-switching.

Keele University is committed to the principles of the Athena SWAN charter, and values equality and diversity across our workforce. We strive to ensure that our workforce is representative of broader society, and therefore, we would actively welcome applications from women for this role.

Keele University values equality and diversity across our workforce and to ensuring our staff community is reflective of the diversity of our student population. In support of these commitments the University welcomes applications from individuals of Black, Asian and ethnic minority backgrounds for *all* roles.

How to Apply
For full post details and to find out more about working at Keele please visit: www.keele.ac.uk/vacancies

Keele University employees wishing to apply should login to Employee Self Service and click on the 'View current vacancies' link.

Informal enquiries may be addressed to Professor Maria Heckl, m.a.heckl@keele.ac.uk. Applications to this address will not be accepted.

Closing Date: 15th December 2022

Interviews will be held on: 22nd December 2022

Post reference: KU00003014

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