Title: Aerodynamics and Aeroacoustics of Aerofoils at High Angles of Attack

Type of award PhD Research Studentship

Department Mechanical Engineering

Scholarship A minimum £16,609 p.a. for 2019/20 (please check below for further scholarship details)

Funding Duration 3.5 years

Eligibility Home/EU applicants only

Latest Start date November 2019

PhD Topic Background/Description
The project will involve wind tunnel tests in the University of Bristol’s state-of-the-art aeroacoustics facility (www.bris.ac.uk/aerodynamics-research/facilities). Flow and noise measurements will be carried out using different aerofoils and at different operating conditions. Tests will also cover static and dynamic stall and development of passive techniques to reduce the flow separation noise. The student will become a member of the Aerodynamics and Aeroacoustics Research Team and will have the opportunity to interact will several other PhD students and research associates.

This project is partly funded by GE-Dowty and Embraer and the student will have the opportunity to interact with industrial partners.

The PhD student will join a strong team of experimental researchers at the University of Bristol and will have the opportunity to be involved and benefit from interaction with other PhD students and research associates working on a variety of aerodynamic and aeroacoustic problems.

The results of this project are expected to be of very high quality and be published in the field top journals. The PhD student will have funding for attending at least 4 international conferences.

Further Particulars

Candidate Requirements
We are looking for an enthusiastic student who must hold/achieve a minimum of a master’s degree (or international equivalent) in a science, mathematics or engineering discipline.

The candidate will have a strong understanding of aerodynamics as well as some practical experience and a keen interest for experimental work.
Scholarship Details
Scholarship covers full UK/EU (EU applicants who have been resident in the UK for 3 years prior to 1st September 2019) PhD tuition fees and a tax-free stipend at the current RCUK rate (£15,009 in 2019/20) plus £1,600 per year stipend enhancement (subject to contracts).

Informal enquiries
For informal enquiries, please email Dr Mahdi Azarpeyvand, m.azarpeyvand@bristol.ac.uk

For general enquiries, please email came-pgr-admissions@bristol.ac.uk

Application Details
Interested candidates are strongly encouraged to contact the supervisor, Dr Azarpeyvand informally to discuss their research interests before making an application.

To apply for this studentship, submit a PhD application using our online application system [www.bristol.ac.uk/study/postgraduate/apply]

Please ensure that in the Funding section you tick “I would like to be considered for a funding award from the Mechanical Engineering Department” and specify the title of the scholarship in the “other” box below with the name of the supervisor Dr Mahdi Azarpeyvand.