

Imperial College London
Department of Mechanical Engineering

**Fully – funded PhD opportunity in
Metal-Forming and Materials Modelling Group**
(Overseas Tuition Fees paid, Living expenses of **£16,500** per year for **3** years)
<http://www.imperial.ac.uk/metal-forming/>

Applications are invited for a **fully-funded** research studentship in the field of METAL FORMING, leading to the award of a PhD degree. The post is supported by a **bursary and fees** (at the **Overseas**/EU/UK student rate) provided by the department.

The research work will be focused on the development of **novel metal forming technologies**, e.g. lightweight metal forming technologies, such as forging of lightweight gears; materials and process experiments and modelling to address fundamental problems including the evolution of defects, damage and microstructure, and their effects on macroscopic crystalline material deformation behaviour for a wide range of applications, particularly in automotive and aerospace.

The Department was the top-ranked Mechanical Engineering Department in the 2014 UK REF exercise. The Metal Forming and Materials Modelling group is recognised as being at the leading-edge of research in hot and warm forming technologies for lightweight components and structures, which covers a wide range of activities, in theory, innovative testing, materials and process modelling. The Group has made a significant contribution to the development of new forming technologies and novel materials modelling methods. Led by 4 academic staff, the Metal-forming and Materials Modelling Research Group has expanded very quickly during the last five years with **3** industry funded research centres and **1** joint laboratory. It has secured PI funding of over £15 million from EPSRC, Innovate UK, EC and international companies, and has been involved in projects with total funding of over £50 million.

You will be an enthusiastic and self-motivated person who meets the academic requirements for enrolment for the PhD degree at Imperial College London. You will must have a 1st class /distinction honours and ranked at the top 10% of an MSc or MEng course in Mechanical/Materials Engineering or a related subject, and an enquiring and rigorous approach to research together with a strong intellect and disciplined work habits. Having background in metal forming is beneficial but not essential. Good team-working, observational and communication skills are essential.

To find out more about research at Imperial College London in this area, go to:
<http://www3.imperial.ac.uk/mechanicalengineering>

For information on how to apply, go to:
<http://www3.imperial.ac.uk/mechanicalengineering/study/pgresearch/opportunities>

For further details of the post contact Dr Jun Jiang jun.jiang@imperial.ac.uk. Interested applicants should send an up-to-date curriculum vitae to Dr Jiang. Suitable candidates will be required to complete an electronic application form at Imperial College London in order for their qualifications to be addressed by College Registry.

Closing date: (31st Aug. 2016)

Committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion, a Two Ticks Employer, and are working in partnership with GIREs to promote respect for trans people