Imperial College London
Department of Mechanical Engineering

**Fully/Partially– funded PhD opportunities 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/](http://www.imperial.ac.uk/metal-forming/)

The Metal Forming and Materials Modelling group wishes to provide 1x FULLY funded and 2x partially funded studentships to EXCEPTIONAL candidates to conduct PhD research work in the Mechanical Engineering department, at Imperial College London. 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.

Potential Candidates must have a distinction honour and ranked at the top 10% of an MSc or MEng course in Mechanical/Materials/Aerospace/Automotive Engineering. Background in metal forming is beneficial but not essential.

For further details of the post contact Dr Jun Jiang (www.imperial.ac.uk/people/jun.jiang), at jun.jiang@imperial.ac.uk.

Interested applicants should complete an electronic application form at Imperial College London in order for their qualifications to be addressed by College Registry.

Closing date: until 31st of Oct 2019

Imperial Managers lead by example. 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.