Applications are invited for a research studentship in the field of additive manufacturing leading to the award of a PhD degree. The post is supported by bursary and fees (at the UK/EU student rate).

Additive manufacturing (AM) technologies have a promising list of potential benefits for low to medium volume manufacture. Understanding the structural integrity of AM components is key to their increased use in high performance and safety critical applications. This PhD project will focus on developing new in-situ process monitoring and control strategies to both monitor and improve build quality of metal components made via selective laser melting. The PhD is part of a wider project focusing on the relationships between manufacturing process variables, microstructure and final mechanical properties. The research will be performed using Imperial's new AM facility (that includes two selective laser melting machines, Renishaw AM250 and Concept MLaB), world class materials characterisation and test facilities and high performance computing systems. For information go to:

http://www.imperial.ac.uk/additive-manufacturing/research/
http://www.imperial.ac.uk/people/paul.hooper/research.html

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 have a first or upper second honours degree in engineering, physics, computing or a related subject, and an enquiring and rigorous approach to research together with a strong intellect and disciplined work habits. Applicants should have an interests in one or more of optics, lasers, image processing, embedded systems, real-time control systems, welding and metallic materials. Only UK and EU citizens are eligible. A passion for engineering, demonstrated by extra-curricular activities or industrial experience is also desirable. Good team-working, observational and communication skills are essential.

For information on how to apply, go to:
http://www3.imperial.ac.uk/mechanicalengineering/research/phdopportunities/.

For further details of the post contact Dr Paul Hooper (paul.hooper@imperial.ac.uk) or Dr Catrin Davies (catrin.davies@imperial.ac.uk). Interested applicants should send an up-to-date curriculum vitae and cover letter to Dr Hooper on the above e-mail address. 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 August 2017

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