Imperial College London
Department of Mechanical Engineering

PhD Studentship in Materials

Applications are invited for a research studentship in the field of developing and testing novel paints for coil coating, leading to the award of a PhD degree. The post is supported by a bursary and fees (at the UK/EU student rate) provided by Becker Industrial Coatings.

The research will investigate how the structure of the paints used for the coil coating of metal affects their formability and durability. These paints are high-performance polymers which are applied to steel strip and cured. The pre-painted metal is shipped to the customer to be cut and formed into products such as refrigerators, construction equipment and building panels. The work will be principally experimental, involving mechanical testing, thermal analysis and microscopy. The structure/property relationships of the paints will be identified, leading to improved and novel materials. There will also be the opportunity to undertake some engineering design of test equipment.

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 1st class honours degree in mechanical engineering, materials science, chemical engineering, chemistry or a related subject, and an enquiring and rigorous approach to research together with a strong intellect and disciplined work habits. Training will be given in materials manufacturing, characterisation and mechanical testing, and investigative techniques including electron microscopy. 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 Ambrose Taylor a.c.taylor@imperial.ac.uk +44 (0)20 7594 7149. Interested applicants should send an up-to-date curriculum vitae to Dr Taylor. 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: 29 February 2016

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.