PhD Studentship

Project title - A fundamental study into novel methods to selectively metallise materials using a magnetic field to enable more sustainable processing in electronics, automotive, aerospace and other high value manufacturing sectors

Director of Studies – Dr Andrew Cobley (a.cobley@coventry.ac.uk)

The Functional Materials Applied Research Group at Coventry University

We are looking to recruit for a funded PhD studentship. Each studentship will include fee payment (currently £3,900) and a bursary of £13,726 per year, for three years. The studentships are only available for three years of full time study with a view to the student starting the PhD in September 2013 and completing within three years.

For general information on admissions to Coventry University research degrees see the following web page:

http://www.coventry.ac.uk/research/research-students/research-students-research-degree-recruitment-process/

About Functional Materials Applied Research Group

The Functional Materials Applied Research Group is an enthusiastic and dynamic research team looking to develop fundamental and applied materials research to produce platform technologies to address real industry needs. More information about the group can be found by following this link:

http://www.coventry.ac.uk/research/research-directory/engineering/functional-materials/

An opportunity has arisen to take part in an exciting project within the Functional Materials Applied research group to study electrochemical deposition in a magnetic field.

About the innovative PhD opportunity

Electrochemical deposition in a magnetic field is a novel and growing area of research across Europe expected to contribute to the development of innovative highly sustainable and efficient metallisation processes used in electrochemical research and with wide applicability across high value manufacturing sectors such as electronics, aerospace and automotive.

This PhD study will give you the opportunity to work at the forefront of electrochemical metallisation processes and develop your leadership skills. You will be part of a dynamic, growing research team and have access to latest technologies and equipment in this area. The Functional Materials group has very strong links with industry and the project will involve close interaction with our industrial partners, testing and validation studies on industrial sites and discussions on commercial implementation. In addition you will have the opportunity to travel to conferences and events to both academic and industrial audiences within the UK and abroad.

Therefore the successful candidate would develop an innovative niche area of research for which the Functional Materials ARG could become World renowned and ‘thought’ leaders.
This proposal is therefore extremely timely and represents an essential opportunity for the development of novel fundamental research.

**About the city**

Coventry is a student city that's easy to get to and easy to get around. We're only an hour from London by train and 20 minutes from Birmingham. There's plenty to do in Coventry as a student, whether you're into music, sport, art or fashion and our city centre campus puts you right at the heart of the action. For more info please see: [http://www.coventry.ac.uk/life-on-campus/living-in-coventry/](http://www.coventry.ac.uk/life-on-campus/living-in-coventry/)

Coventry University is a forward-looking, modern university with a proud tradition as a provider of high quality education and a focus on applied research. Our students benefit from state-of-the-art equipment and facilities in all academic disciplines including health, design and engineering laboratories, performing arts studios and computing centres. Our city-centre campus is continually developing and evolving, and we have plans for further investment in it over the next few years. We are a major presence in Coventry, which contributes to the city's friendly and vibrant atmosphere and also enables us to foster successful business partnerships.

**Applicant**

If you a passion for applied science with an interest and background in electrochemistry, materials science, chemistry or relevant science subject and are ambitious to develop a project where you could become a ‘thought leader’ and critically advance metallisation processes we will be very keen to hear from you.

**Closing Date for Applications – 12th July 2013**

For further information please contact Dr Andrew Cobley ([a.cobley@coventry.ac.uk](mailto:a.cobley@coventry.ac.uk))

**Application Process**

Each applicant must complete a Coventry University application form that can be downloaded from the following web page. Each applicant must also provide 2 references

[http://www.coventry.ac.uk/research/research-students/phd/](http://www.coventry.ac.uk/research/research-students/phd/)

Applicants will be shortlisted according to their qualifications, experience and suitability to the project (including assessment of the literature review the candidate provides). We will also consider the strength or the research proposal proposed, the likely outputs from the project and the fit of that proposal with the themes of research within the Faculty (clearly the research proposals that are being advertised are considered strong proposals that fit within the research themes of the Faculty of Health and Life Sciences)
Completing the application form:

Section 1: Target award = PhD; Host Faculty = Health and Life Sciences; Mode of study = full time; Preferred entry date = September 2013.

Sections 2: fill in your details

Section 3: fill in your details. **Who is expected to pay your fees = Faculty of HLS studentship**

Sections 4, 5 and 6: fill in your details

Section 7: Project title = the project title given above; Potential Director of studies = the Director of studies given above; Ignore the other sections as we have already given details of the aims, objectives, methodology and background. i.e. we do not require a project proposal. **Instead write a 500 word literature review relevant to the proposed study (do not copy the background provided above).**

The other sections (section 8 onwards) should also be completed as indicated on the form.

If you have any questions about the application process or need to identify a suitable member of staff to discuss your potential research studentship project application ideas with then please contact Dr Rob James r.james@coventry.ac.uk

**Entry Requirements**

We are looking for candidates with a relevant MSc or MScR qualification. For more details on our standard entry requirements see the web page above.

It may be possible for students who are currently studying for a directly relevant MScR to apply, however, in such a case if a studentship was awarded it would be for two years to allow the student to convert and complete a PhD.