

# PhD and Postdoctoral Research Fellow Opportunities

Monash University - Melbourne - Australia

## Research topics:

1. Development of next generation of biosensors/biofuel cells using nanotechnology
2. New nanocomposite catalysts for pharmaceutical and energy applications

## About Monash University and School of Chemistry:

Monash University is Australia's leading university. It was ranked number 45 by the 'Times Higher Education Supplement' in its annual ranking of the world's top 200 universities in 2009. The School of Chemistry at Monash is one of the leading teaching and research schools in Australia, and has been consistently ranked No. 1 school of chemistry in Australia in the past decade.

## About the research team:

The research in our team mainly focuses on electrochemistry and nanotechnology. Our team is led by Dr. Jie Zhang who has recently been awarded a prestigious Future Fellowship from the Australia Research Council. The Future fellowship is a new scheme created by the Australian Government "*to attract and retain the best and brightest mid-career researchers to conduct their research in areas of critical national importance in Australia*". With this fellowship, Dr Zhang will be able to work alongside of his Ph.D. students and Postdoctoral research assistants as a full time researcher and give them timely advices. Before he joined Monash, Dr. Zhang had been a Senior Research Scientist at the Institute of Bioengineering and Nanotechnology, Agency for Science, Technology and Research (A\*STAR), Singapore for three years.

## About the candidates:

### *Ph.D. students:*

We are looking for highly self-motivated, hard-working, intelligent and team-playing students who have a solid background in chemistry, material science, physics or biology. You will need to apply to Monash via the regular graduate admission process before 31<sup>st</sup> May or 31<sup>st</sup> October each year. To enrol in a doctoral course at Monash University, you are required (1) a MSc degree in a relevant discipline with first or upper second class honours or equivalent - or (2) a BSc degree in a relevant discipline with first or upper second class honours. A proof of English language proficiency is required for applicants from non-English speaking countries. For more details about the requirements for Ph.D. enrolment, please see

[Information for future postgraduate students](#)

[Applying for a Postgraduate Research Scholarship](#)

[2010 Postgraduate Research Scholarship Selection Principles & Procedures Manual](#)

For students who are Australian or New Zealand citizens and are interested in spending up to 2 years at the A\*STAR research institutes in Singapore to broaden their research horizon, please see

[The Agency for Science, Technology and Research \(A\\*STAR\) Monash Research Attachment Programme \(ARAP\)](#)

Dr Zhang has established a strong network with many A\*STAR researchers when he worked at an A\*STAR institute as a senior research scientist. Therefore, a suitable co-supervisor can be arranged for the students.

For more information about scholarship opportunities for international students at Monash, please see

[Becas Chile Scholarships](#)

[Monash University - China Scholarship Council \(CSC\) Doctoral Scholarship Program](#)

[Australian Government Endeavour Awards](#)

***Postdoctoral Research Fellows:***

If you have a strong publication record and are looking for the possibility of joining our group as a postdoctoral research fellow, you are strongly encouraged to apply for a fellowship from Australian Research Council. More details about this fellowship can be found from the following website. Please contact Dr Zhang to discuss possible research topics for the fellowship application.

[Australian Research Council Postdoctoral Fellowships](#) (Applications due in March, results announced in November, start in January the following year).

If you are interested in our research, would like to join our team and want to know more details about our research, please contact Dr Zhang at [jie.zhang@sci.monash.edu.au](mailto:jie.zhang@sci.monash.edu.au).