

2016 DEAKIN UNIVERSITY & INDIAN OIL CORP LTD PHD FELLOWSHIP PROGRAM

Institute for Frontier Materials / Indian Oil R&D Centre

Deakin University and the Indian Oil Research & Development Centre invites applications for four (4) Deakin University & Indian Oil Corp Ltd (IOCL) PhD Research Fellowships to work on specific projects in areas of Nanotechnology, Lubricant Technology and Tribology.

Available Research Projects

One (1) PhD fellowship position will be allocated to each of the following research projects:

Project 1

Ionic liquids for Lubricant Applications – Molecular Modelling, Synthesis and Performance Evaluation.

Project 2

Ionic Liquids as dispersants for stabilizing nanomaterials - Molecular Modelling, Synthesis and Performance Evaluation.

Project 3

Study on Lubricant Behaviour of Polyalkyl Glycols.

Project 4

Energy efficiency through a Tribo-Chemical Model and Validation through Experimentation.

Value & Benefits

Stipend

The following stipend amounts will be provided to successful applicants throughout the PhD program:

Item	Scholarship Amount (Basic)		House Rent Allowance per month	
	INR	AUD	INR	AUD
JRF (for 2 years), per month	31250	619.07	9375	185.72
SRF (for 2 years) per month	35000	693.36	10500	208.01
Contingency, per year	20000	396.20		
One time lump sum grant	Rs. 3000/- (AUD 59.43) on Submission of Ph.D Thesis.			

- Each PhD student will be given fellowship initially for 4 years (2 years as Junior Research Fellow – JRF and 2 years as Senior Research Fellow – SRF).
- IOCL will endeavour to provide hostel accommodation for the candidates at Faridabad, Haryana, based on availability. No house rental assistance will be provided if the candidate is residing at the hostel facility of IOCL.

Tuition fee waiver

Successful candidates will receive a tuition fee waiver for enrolment in the PhD program for 4 years.

Travel allowance

Successful candidates will have the opportunity to travel to Deakin University, Australia, for a one-off period of 6 months during the program. Deakin University will contribute the costs of one return airfare and arrange accommodation for this research visit.

Eligibility criteria

- Applicants must meet Deakin University's PhD entry requirements. Please refer to the [entry pathways to higher degrees by research](#) for further information.
- Applicants must hold a Master's degree such as an ME/ M Tech (Mechanical Engineering or Tribology) with a substantial research component from a recognised university in India in the fields of Chemistry (Organic/Inorganic/Physical), Nanotechnology, Mechanical Engineering or Tribology. Applicants must have graduated first class (65% or above marks in the final exams or equivalent CGPA).
- Applicants must have valid Council of Scientific & Industrial Research (CSIR), University Grants Commission, National Eligibility Test and Junior Research Fellowship qualifications. Attainment of these qualifications after commencement of the PhD program will not be accepted.

How to apply

Please complete a hardcopy application form available from the [IOCL website](#) and attach a detailed CV including academic percentage, a one page write up on your research project of interest and summary of previous publications. Please ensure you provide your contact email address in your application.

Applications should be emailed to Ms. Gayathri Vedanarayanan Manager – Research Partnerships (India) (gayathri.v@deakin.edu.au) by **COB 28 May 2016**.

Shortlisted applicants will be called for interviews in New Delhi and will be responsible for travel costs to attend the interview. Once interviews have been conducted, successful applicants will be invited to apply formally for admission to Deakin University's PhD program.

Further information

If you wish to discuss your research interests or project proposal prior to applying, please contact Ms. Gayathri Vedanarayanan via [email](#) or phone +91 11 26544720.