



Indian Institute of Technology (Indian School of Mines), Dhanbad Jharkhand-826004, India

IIT (ISM), Dhanbad – Curtin University, Australia

Advertisement for Collaborative Doctoral Programme

Applications are invited for Collaborative Doctoral Programme (CDP) between IIT (ISM), Dhanbad and Curtin University, Australia from full-time IIT (ISM) Junior Research Fellows under Indo-Australian collaborative scheme.

Outline of the Doctoral Programme:

The Collaborative Doctoral Programme is a joint effort made by both IIT (ISM) Dhanbad (home institution) and Curtin University (Host institution) for the award of Doctoral degree. The student will follow a program of doctoral research supervised by the researchers from both Institutions. It is expected that the student will meet the entry standards of both Institutions and have concurrent enrolment. The candidates will spend one (minimum) to two years (maximum) at Curtin University (Perth, Western Australia). The final thesis submitted (written in English) will be examined by both Institutions for a Joint Award degree.

Areas of Research (not restricted to): Energy and Minerals: Mine Safety, Rock Excavation, Clean coal technology, coal beneficiation, combustion, carbonization, gasification, Engineering Asset Management and Smart Cities

Supervisors: Supervisors will be assigned both from IIT (ISM) Dhanbad and Curtin University. During the research periods, the students will collaborate with both supervisors at all times through electronic communication. There will be two supervisors, one from the home University and the other from the Host University. In case of Inter disciplinary subject, there may be co-supervisors in addition to the main **Two supervisors**. The area of research will be decided based on mutual discussion amongst the supervisor of the home Institute, the supervisor of the host Institute/University and the Ph.D. scholar.

No of Fellowships: Five

Scholarship: As per IIT (ISM) JRF rules, Rs. 31000/- month will be provided during their stay at IIT (ISM) Dhanbad. During their stay in Australia, the scholarship will be paid by Curtin University as per https://scholarships.curtin.edu.au/current/pg_pay_rates.cfm. This will be AU \$ 25,000/- plus per year.

Eligibility Criteria:

1. The candidate shall be a full-time research scholar enrolled in IIT (ISM).
2. The candidate shall fulfill the eligibility requirements of both IIT (ISM) JRF and Curtin University as per <http://futurestudents.curtin.edu.au/research/application/entry/>

3. The candidate must have cleared all the pre-thesis course requirements prior to his mobility.
4. The candidate must have high academic and research credentials.
5. The candidate must propose a top-quality research project with clear milestones to be achieved at IIT (ISM) and Curtin University. The roles of the supervisors shall be clearly identified.

Tuition Fees: Enrolled students will pay the annual tuition fees and other relevant fees applicable at the home Institute as per the prevailing norms of the Ph.D programme

Salient Features of the Collaborative Doctoral Programme

(i) **The name of the Programme:** JOINT DOCTORAL PROGRAMME of IIT (ISM), Dhanbad and CURTIN UNIVERSITY, Australia

(ii) **Award of degree:**

Two separate degree certificates may be awarded for one thesis by the respective partner institutions under a specific Memorandum of Understanding (MoU) while maintaining the template of their own institute. However, the joint nature of the degree and the name of the partner institution must be mentioned in both certificates.

In case of two separate degrees for the same thesis, on fulfillment of all academic requirements, the degree certificate will be awarded by the host as well as home institutions as per their own schedule. The final grade sheet will be given to the scholars along with the Degree certificate by the home Institute only.

(iii) **Selection methodology:** Both the home and host university will identify the areas of collaborative research, the number of scholars, subsistence allowance and other modalities as per the availability of funds. A scrutiny committee consisting experts from the defined area of research approved by the IIT (ISM) Authority will scrutinize the applications and forward to Curtin University for further scrutiny and selection. While finalizing the selection, priority areas of mutual interest of both Institutes will be kept in view. The selection will be made mutually by both institutions based on the priority areas.

(iv) **Assistance:** The host university will provide the required guidance, and research facilities for undertaking the Ph.D. The host university will also provide travel, insurance and free furnished accommodation for the stay of the research scholars. In case, of non-availability of accommodation, a suitable allowance will be provided by the host university to the candidate to cover the same.

(v) **Duration of the Ph.D:** This will be governed by the rules of the home university. However, the mobility under the scheme will be for a minimum period of one year and a maximum period of two years.

(vi) **Rights to Intellectual property:** Will be governed by the home university.

(vii) **Progress monitoring:** There will be joint monitoring at quarterly intervals with suitable exchange of documents.

(viii) **Thesis Examination:** The student will present his/her thesis in English and same will be examined as per the rules of the home Institute. The home Institute will submit a

copy of the thesis and all examiners report to the host Institute/University for consideration and ratification. In case of any difference of opinion in approving the thesis, needful improvements will be suggested by the host Institute/University and implemented by candidate to the satisfaction of both home and host Institute/University. Finally, a letter of concurrence from the supervisors at the home Institute and the host Institute/University stating that the thesis is suitable for submission must be obtained.

(ix) All other rules applicable to IIT (ISM) Ph.D. students will be followed for the candidates opting for this programme in addition to the rules given in Appendix A (<http://futurestudents.curtin.edu.au/research/application/entry/>).

(x) All the rules already framed for the award of Ph.D. from IIT (ISM) Dhanbad are applicable in addition to the rules/selection criteria applicable to IIT (ISM)-CUT Collaborative Doctoral Programme.

Communication Address: All correspondence will be done to Dean (Research and Development), Indian Institute of Technology (ISM), Dhanbad-826004.

Important Dates: Last date of application: 28/02/2023 (Tentatively)

Appendix A

<http://futurestudents.curtin.edu.au/research/application/entry/>

Higher degrees by research – Curtin University, Australia

What is a Higher Degree by Research?

A higher degree by research differs from other postgraduate degrees in that the study program comprises mostly of research. Although Heads of Enrolling Area may require a portion of coursework-based units to be completed, the main body of work produced as a culmination of this research will be in the form of a thesis written under the guidance of a supervisor and associate supervisor/s.

Applications for admission to a doctoral research program may be submitted at any time of the year. View a full list of the research courses offered at Curtin University via the [Courses Handbook](#).

Further information for international applicants is available on the [Future International Students](#) website.

If you are an international applicant and are unsure which enrolling area to contact, or for any other inquiries related to entry requirements, contact the [International Office](#).

Entry requirements for a Doctor of Philosophy and other doctoral research degrees **Entry requirements for Doctoral Degrees**

Curtin offers several doctoral research degrees, including the Doctor of Philosophy (PhD). Doctoral research degree candidates throughout their research program should uncover new knowledge either by the discovery of new facts, the formulation of theories or the innovative re-interpretation of known industry data and established ideas.

The thesis research program at Curtin University is structured to allow for practical orientation, as well as being useful in developing an effective understanding – providing for the application of solutions to real-world problems.

Subject to and in accordance with Curtin University's [Rule 10: Degree of Doctor by Research](#) a Doctor of Philosophy (PhD) degree shall be awarded for a thesis as defined in the Rules or a combination of a thesis and coursework in which the coursework component does not exceed one-third of the total doctoral degree program.

In all cases, the thesis must in the opinion of the examiners be a substantial original contribution to the knowledge or understanding of any field of study and demonstrate the capacity of the candidate to conceive, design and carry to completion independent research.

For admission to a doctoral degree program an applicant normally shall have studied for a minimum of four years in a tertiary institution and satisfied the Faculty Graduate Studies Committee that at least one of the following entry requirements has been met:

- Graduated with or qualified for the award of the degree of the master within the University which requires the completion of a publicly available thesis or research project to an acceptable standard
- Graduated with or qualified for the award of the degree of bachelor with first class honors or upper second class honors within the University
- (i) Graduated with a bachelor's degree and completed a postgraduate or completed a master's degree by coursework, with, in both cases, a course-weighted average of not less than 70 percent within the University, and
(ii) Demonstrated the capacity to undertake significant research
- in exceptional circumstances:
(i) graduated with or qualified for the award of the degree of Bachelor
(ii) has substantial:
 - i. relevant peer-reviewed publications or conference papers, exhibitions, or
 - ii. research experience,
(iii) and demonstrated the capacity to undertake significant research
- Obtained qualifications from another institution which are recognized by tertiary admission authorities in Australia and which are deemed to be equivalent to, or a satisfactory substitute for, any of the qualifications prescribed above
- Enrolled in a research master's degree for the equivalent of at least one semester full-time, and shown exceptional ability in the conduct of the early stages of the research project which is clearly capable of being extended and converted to doctoral level. Conversion of enrolment from a master to a doctoral program requires the approval of the Faculty Graduate Studies Committee

[For detailed guidelines of CDP please see the link: Click here](#)

NOTE: Upon final selection of the applicant for CDP, the SCHEDULE A needs to be filled and signed by the home and host institute.



Indian Institute of Technology (Indian School of Mines), Dhanbad

Jharkhand-826004, India

Application form

IIT (ISM) –Curtin Collaborative Doctoral Programme

Affix here
recent
passport size
photograph

1. Name : _____
2. Father's Name : _____
3. Date of Birth : _____
4. Nationality : _____
5. Gender : _____
6. Present Address : _____

7. Permanent Address : _____

8. Caste : General/SC/ST/OBC
9. Marital Status : _____
10. Email : _____
11. Telephone No : _____

12. Academic Record starting with secondary education (Please attach Xerox copies of Degree Certificate)

Examination	Branch/ Specialization	College/University /Institute	Year	Percentage /Grade	Class/ Division

13. Research Publications (If any):

14. Research Project: _____

15. Research Statement (please attach in maximum two pages)

16. Recommendations/Acceptance Letter from the contacted Supervisor from the Host Institute.

17. I hereby declare that all entries in this form as well as attached sheets are true to the best of my knowledge and belief.

Date:

Place:

(Signature of Applicant)