



Discipline of Mechanical Engineering

Indian Institute of Technology Indore

Khandwa Road, Simrol

Indore 453 552

IIT
Indore

PhD Program in Mechanical Engineering Discipline

The purpose of education is to replace an empty mind with an open one.

Educating the mind without educating the heart is no education at all.

These great sayings cue the Discipline of Mechanical Engineering in putting a wholesome effort in instilling the worth of knowledge among the students. The Discipline along with its strong faculties, on behalf of IIT Indore, an academic platform of international repute, is dedicated to the service of training and building educated minds, confident to work and excel in their respective fields in future. We invite applications from high caliber, enthusiastic and research-oriented students for admission to the PhD Program. The vacancies are available in the following areas:

Sr. No.	Specialization	Research Areas
1	(Mechanical Systems Design)	<ul style="list-style-type: none">• Molecular Modeling of Boron- and Carbon-Based Nanostructures• First Principle Modeling of Solids• Phase-Field Modeling of Solids• Mechanics of Composites• Multiscale Modeling• Smart Structures• Micromechanics and Nanomechanics

A. Categories of Admission: Kindly refer the main PhD Advertisement of the Institute (<http://academic.iiti.ac.in/phdadvt.php>)

B. Eligibility for Indian Students: Please refer the main PhD Advertisement of the Institute (<http://academic.iiti.ac.in/phdadvt.php>)

C. Eligibility for International Students: Please refer the main PhD Advertisement of the Institute (<http://academic.iiti.ac.in/phdadvt.php>)

After submitting the application online, the eligible candidate needs to send the signed hard - copy of the application along with recent photograph, self-attested relevant certificates and Statement of Purpose (SOP) to the DPGC Convener of ME Discipline latest by June 15, 2018.

D. Last date of online application: June 5, 2018 (for Indian Students); May 31, 2018 (International Students)

E. Desirable skills: knowledge of some of following areas is highly desirable.

- Molecular Dynamics Simulations
- Exposure to LAMMPS/Quantum ESPRESSO or any other DFT/MD Software
- Mechanics of boron- and carbon-based nano structures such as nanotubes, sheets
- Modeling and characterization of solid nanomaterials

All interested candidates need to apply online at (<http://academic.iiti.ac.in:8080/nregistration.jsp>) as well as submit one page write-up along with their CV to kundalwal@iiti.ac.in (Dr. Shailesh Kundalwal). In one page write-up, the candidate may write about his/her past research work, any relevant research project done by the candidate, his/her idea for future research or views on the above research areas based on the literature search etc.

After carefully scrutiny of the applications based on **CV and write-up**, candidate may be called for interview. If required, some of the candidates may also go through a telephonic interview and scrutiny, before the final onsite interview.

F. Application Procedure and General Information for Indian Students:

- [1] Candidates must apply ONLINE through the website (<http://academic.iiti.ac.in:8080/nregistration.jsp>).
- [2] Application Fee: Rs. 100/- (INR) to be paid through State Bank Collect only (<https://www.onlinesbi.com/prelogin/icollecthome.htm>). Candidate needs to produce payment slip at the time of written test/interview.
- [3] Candidates need NOT send the hard copy of the submitted online application by post or courier. The candidate should submit the signed application at the time of written test/interview.
- [4] Mere eligibility will not vest any right on any candidate for being called for written test/interview. The decision of the Discipline in all matters will be final.
- [5] Candidates need NOT to apply against this advertisement who have not been selected in the previous rounds of selections in the past 1 year.
- [6] No TA/DA will be provided to the applicants, if called for the written test/interview.

The candidates can contact the DPGC convenor for further information on following address:

admission-me@iiti.ac.in