

# Indian Institute of Technology Indore

## Invites applications for PhD admission in the Discipline of Metallurgy Engineering and Materials Science

IIT Indore invites applications from highly motivated and research-oriented students for admission to its PhD Program in the **Discipline of Metallurgy Engineering and Materials Science** for the **Autumn Semester 2017-18**. PhD positions are available in (but not limited to) the following areas:

- *Organic Material Synthesis*
- *Spintronics, Superconductors and Multiferroics*
- *Thin Films and Multilayered Structures*
- *Computational Designing of Materials for Energy and Spintronics Applications*
- *Solar Cells including Perovskite Nanostructures Based Solar Cells*
- *Energy Generators Including Piezoelectric Materials*
- *Gas and Humidity Sensors*
- *Single Crystal Growth and Characterization*
- *Electronic Devices Fabrication*
- *Nano-materials for Solar Driven Water Splitting to Produce Hydrogen*
- *Nanostructured Electrodes for Electrochemical Sensors*
- *Electrochromic Devices and Smart Glasses*
- *Materials for Piezoelectric Applications*
- *Electrical Energy Storage- Batteries & Supercapacitors: Electrodes, Electrolytes, Device Fabrication*
- *Study of Surface and Interfaces: Nanomaterials - Optical Properties, Photocatalytic Activity*
- *Experimental and Theoretical Investigations of Wide Band Gap Materials for Photovoltaic Applications*
- *Deposition, Characterization, and Theoretical Investigation of Optical Thin Films*

Admissions are offered under the following categories: FA (Fellowship Awardee), TA (Teaching Assistantship, SW (Sponsored Without Institute scholarship), IS: Institute staff (part time), EC (External Category), and DF (Serving personnel in the defense forces). Details of these categories are provided on the webpage at <http://academic.iiti.ac.in/phdadvt.php>. Candidates are also strongly advised to visit the webpage at <http://mems.iiti.ac.in/faculty.html> to learn more about the research areas of the faculty members.

<b>Name of the Faculty</b>	<b>Contact details</b>	<b>Web page</b>
Dr. Parasharam Shirage	<a href="mailto:pms Shirage@iiti.ac.in">pms Shirage@iiti.ac.in</a>	<a href="http://iiti.ac.in/people/~pms Shirage/">http://iiti.ac.in/people/~pms Shirage/</a>
Dr. Ajay Kumar Kushwaha	<a href="mailto:ajaykk@iiti.ac.in">ajaykk@iiti.ac.in</a>	<a href="http://iiti.ac.in/people/~ajaykk/">http://iiti.ac.in/people/~ajaykk/</a>
Dr. Sunil Kumar	<a href="mailto:sunil@iiti.ac.in">sunil@iiti.ac.in</a>	<a href="http://iiti.ac.in/people/~sunil/">http://iiti.ac.in/people/~sunil/</a>
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Dr. Sudeshna Chattopadhyay	<a href="mailto:sudeshna@iiti.ac.in">sudeshna@iiti.ac.in</a>	<a href="http://iiti.ac.in/people/~sudeshna/">http://iiti.ac.in/people/~sudeshna/</a>
Dr. Pankaj R Sagdeo	<a href="mailto:prs@iiti.ac.in">prs@iiti.ac.in</a>	<a href="http://iiti.ac.in/people/~prs/">http://iiti.ac.in/people/~prs/</a>

## Eligibility

1. Minimum first class\* Master degree in the relevant discipline of the Engineering/Technology, **OR**
2. Minimum first class\* Bachelor degree in the relevant Engineering/ Technology discipline from a reputed Institute with a **valid GATE score**,  
**OR**
3. BTech degree from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0 **OR**
4. Minimum first Class\* Master degree in the relevant discipline of Science (Physics/Chemistry/Materials Science, etc.) with **valid GATE** qualification  
**OR UGC/CSIR-JRF** qualification **OR** equivalent fellowship.
5. **DST Inspire** fellowship holders

\* The first class is defined as

- (i) 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate, **OR**
- (ii) CPI/CGPA of 6.0 for GEN/OBC (5.5 for SC/ST) category on the scale of 10; with corresponding proportional requirements when the scales are other than on 10 (for example 4.8 for GEN/OBC category (4.4 for SC/ST) on a scale of 8), **OR**
- (iii) A first class as specified by the University/Institute awarding the degree.

## Application Procedure

1. Candidates must apply ONLINE through the website (<http://academic.iiti.ac.in:8080/nregistration.jsp>). This will generate a unique application number for each applicant. **Deadline for submitting the application online is May 5, 2017 at 6:00 p.m.**
2. Application Fee: 100/- Indian Rupees to be paid through State Bank Collect (<https://www.onlinesbi.com/prelogin/icollecthome.htm>) or through a Demand Draft (DD) drawn in favour of “**Registrar, IIT Indore**” payable at “**Indore**”.
3. After Submitting the application online, the same is to be downloaded and the signed hard-copy along with the State Bank Collect receipt (or Demand Draft), recent photograph, self-attested relevant copies of certificates, (for SW candidates: No Objection Certificate, Experience Certificate, last 3 months salary slip and Employer’s PAN card) must be sent to the DPGC Convener at the below-mentioned Address for Correspondence before **12 May 2017**. The deadline for receiving offline/hardcopy submission is 7 days after the expiry of online submission of the discipline.
4. The candidate must write his/her name, Discipline of Metallurgy Engineering and Materials Science and the Application Number on the back side of the Demand Draft.
5. The envelope of the application must clearly mention “***Application for Admission in PhD Program in the Discipline of Metallurgy Engineering and Materials Science for Autumn Semester 2017-18***”.
6. PhD interview/written test would be conducted tentatively in the **last week of May, 2017** at IIT Indore, Simrol. Final date of written test/interview will be communicated to applicants; candidates must take a note that only email communication will be sent.
7. The short-listed candidates must arrange recommendation letters from at least two referees.

### For any queries please contact:

Dr. Shaikh Mobin (DPGC Convener)

Discipline of Metallurgy Engineering and Materials Science

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