

## Discipline of Metallurgy Engineering and Materials Science Indian Institute of Technology Indore

### Advertisement for Admission to Ph.D. Program for 2018-Autumn Semester

IIT Indore invites applications from highly motivated and research-oriented students for admission to the Ph.D. Program in the **Discipline of Metallurgy Engineering and Materials Science** under different areas of **Materials Science** as follows:

S. No.	Specific Research Area
1.	<i>Advanced Functional Materials</i>
2.	<i>Chemistry of Soft Materials</i>
3.	<i>Nanotechnology in Drug Delivery</i>
4.	<i>Nanomaterials as Biosensors</i>
5.	<i>Theoretical and Computational Materials Science</i>
6.	<i>Inorganic Chemistry Materials</i>
7.	<i>Inorganic Materials</i>
8.	<i>Energy Storage and Conversion Devices</i>
9.	<i>Displays and Resistive Switching Devices</i>
10.	<i>Polymers for Energy Applications</i>
11.	<i>Magnetic Materials (&amp; Multiferroics)</i>
12.	<i>Constructions of Porous Materials &amp; 2D Layer Materials and their Applications</i>
13.	<i>Multi-functional Inorganic GELS</i>
14.	<i>Charge transfer and Aggregation Induced Emission based materials</i>
15.	<i>Stimuli responsive smart materials</i>
16.	<i>Solar Cell</i>
17.	<i>Superconductor</i>
18.	<i>Materials for H<sub>2</sub> Storage and CO<sub>2</sub> Capture</i>
19.	<i>Piezoelectric Materials</i>
20.	<i>Supercapacitors and Batteries</i>
21.	<i>Gas Sensors</i>



Candidates are strongly advised to visit <http://mems.iiti.ac.in/faculty.html> to learn more about the research areas of the faculty members.

#### Categories of Admission:

Kindly refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php> for details.

#### Eligibility Criterion:

##### For Indian Students:

1. 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 (e.g. DST-INSPIRE Fellowship) *OR*

2. Minimum first class\* Master degree in the relevant discipline of the Engineering/ Technology (**Materials/ Nano-technology/ Energy Technology etc.**) / Science (**Physics/ Chemistry/ Materials Science etc.**)

**For International students:**

1. Minimum first class\* Master degree in the relevant discipline of the Engineering/Technology (**Materials/ Nano-technology/ Energy Technology etc.**) / Science (**Physics/ Chemistry/ Materials Science etc.**) With valid GRE and TOEFL qualification.#

# International applicants are exempted from GRE and TOEFL qualification for Autumn Semester 2018.

\* 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 online portal (<http://academic.iiti.ac.in:8080/nregistration.jsp>). This will generate a unique application number for each applicant. The deadline for receiving online application for 2018-Autumn semester is **May 31, 2018**.

2. Application Fee: Rs. 100/- (INR) to be paid through State Bank Collect (<https://www.onlinesbi.com/prelogin/icollecthome.htm>) by Indian applicants. **No application fee is payable by the International students for 2018-Autumn Semester.**

3. After submitting the application online, the **Indian candidate** has to send **signed hard-copy of the application mentioning Statement of Purpose (SOP) along with State Bank Collect receipt, recent photograph, Self- attested relevant Certificates, (for SW candidates: No Objection Certificate, Experience Certificate, last 3 months salary slip and Employer's PAN card)** to the Convener, Ph.D. Admissions under Materials Science, MEMS (address given at the end of this advertisement) by **June 10, 2018**.

4. **International candidate** has to send the **signed hard-copy of the application mentioning Statement of Purpose (SOP) along with recent photograph, Self- attested relevant Certificates in support of academic qualifications, experience and citizenship (copy of valid passport) etc.** to Convener, Ph.D. Admissions under Materials Science, MEMS (address given at the end of this advertisement) by **June 20, 2018** .

5. All the applicants must mention “**Application for Admission to Ph.D. Program in the Discipline of Metallurgy Engineering and Materials Science**” on the top of the envelope containing application.

6. The date of Written Test / interview will be communicated to the shortlisted applicants. Candidates must take a note that only e-mail communication will be sent. Interview over video conference can be arranged for the International candidates as per their request.

7. The short-listed candidates must arrange **recommendation letters from at least two referees well before appearing interview**. Referees shall e-mail the reference letters directly to [dkrai@iiti.ac.in](mailto:dkrai@iiti.ac.in) or provide in a **sealed envelope**.

**For further details candidates are referred to <http://academic.iiti.ac.in/phdadvt.php>.**

**For any queries, please contact:**

Dr. Dr. Dharendra Kumar Rai (Convener, Ph.D. Admission under Materials Science)

Discipline of Metallurgy Engineering and Materials Science (MEMS)

Indian Institute of Technology Indore,

Simrol, Khandwa Road, Indore - 453552, India

E-mail: [dkrai@iiti.ac.in](mailto:dkrai@iiti.ac.in)

Phone: +91-732 4306 682