

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

Advertisement for Admission to Ph.D. Program for 2019 Autumn Semester

Advertisement MEMS-02

Discipline of Metallurgy Engineering and Materials Science of IIT Indore invites applications for 2019-20 Academic Session from the interested candidates, for admission to the Ph.D. Program in the following areas:

S/N	Research Topics	Details of the Faculty
1.	<ul style="list-style-type: none"> • Condensed Matter Physics and Materials Science • Solar cells • Energy Storage Materials • Piezoelectric materials • Superconductors • Bio Sensors • Gas sensors 	Dr. Parasharam M. Shirage http://iiti.ac.in/people/~pmshirage//
2.	<ul style="list-style-type: none"> • Materials for energy storage • Photo-active materials 	Dr. Rupesh S. Devan https://rupesh76.wixsite.com/rupesh
3.	<ul style="list-style-type: none"> • Surface Engineering • Tribology 	Dr. Santosh S. Hosmani https://sites.google.com/site/santoshhosa/
4.	<ul style="list-style-type: none"> • Materials Chemistry • Soft Materials 	Dr. Mrigendra Dubey http://iiti.ac.in/people/~mdubey/index.html
5.	<ul style="list-style-type: none"> • Nanomaterials • 2-D Materials (Graphene and Mxenes) • Thin Films and Multifunctional Coatings • Perovskite solar cell Photoelectrochemistry and PEC water splitting 	Dr. Ajay K. Kushwaha http://iiti.ac.in/people/~ajaykk/index.html
6.	<ul style="list-style-type: none"> • Novel Electrolytes for Rechargeable Lithium Batteries • Polymer-Ceramic Composites for All Solid-State Batteries Materials for Piezoelectric and Electrocaloric Applications 	Dr. Sunil Kumar http://iiti.ac.in/people/~sunil/index.html
7.	1. <i>Porous Materials (such as COFs, MOFs and Zeolite) and Their Potential Applications in</i>	Dr. Srimanta Pakhira

<p><i>Gas Storage, Gas Separation, CO2 Capture, Energy Storage, and Drug Delivery.</i></p> <p><i>2. Theoretical and Computational Materials Science, and Novel Type of Materials Design for Electro-catalysts.</i></p> <p><i>3. Novel 2D Layer Structure Materials (Such as TMDs, MXene, Black Phosphorous, etc.) for H2 & O2 Evolution Reactions, O2 & CO2 Reduction Reactions.</i></p> <p><i>4. Renewable Energy Materials, Alkali-ion Battery and Alkane Cracking in Oil Refining Technology.</i></p> <p>(All these are computational fields)</p>	<p>https://sites.google.com/view/dr-pakhiras-research-group</p>
--	--

- To know more about the application procedure and other related details, applicants shall refer to the [main advertisement](#).
- Fill up the online Ph.D. application form ([Apply Here](#))
- **Candidates are strongly advised to visit [Discipline portal](#) to learn more about the research areas of the faculty members.**
- **Important Dates:**

Last date for submission of online application form	: Monday, June 17, 2019
Submission of hard copy of the applications	: at the time of interview
Announcement of Shortlisted candidates	: Wednesday, June 19, 2019
Last date for submission of the recommendation letters	: Wednesday, June 26, 2019
Interview	: Thursday, June 27, 2019
- The date of written test/interview will be communicated to only shortlisted applicants. Candidates must take note that either list will be displayed on the [institute website](#) or e-mail communication will be sent.
- The shortlisted candidate **must bring signed hard-copy of the application** form along with all relevant documents at the time of Written Test / Interview.
- The short-listed candidates must arrange **recommendation letters from three to four referees well before appearing interview**. Referees shall e-mail the reference letters directly to dpgcmems@iiti.ac.in or provide in a **sealed envelope**.
- For general queries, please refer to the [institute website](#), [academics website](#), [discipline website](#) and [advertisement](#). Please do not email us with your resume/CV. The application must be entered online. For other information, you may contact:

Dr. Rupesh S. Devan
 DPGC Convener & Associate Professor
 Discipline of Metallurgy Engineering and Materials Science
 Indian Institute of Technology Indore,
 Khandwa Road, Simrol, Indore 453552. India
 E-mail: dpgcmems@iiti.ac.in