

# Indian Institute of Technology Indore

## Advertisement for Admission to Ph.D. Program (under DST sponsored project), AY 2017-18

IIT/Acad/PhD Admissions/2017

August 2, 2017

IIT Indore invites applications from highly motivated, sincere, hardworking and research-oriented students for admission for its **PhD Program** in the Discipline of Electrical Engineering, as per the below-mentioned category of admission and time schedule. Candidates are strongly advised to visit the profile of the Dr. Vipul Singh, listed below, before applying against this advertisement.

**Categories of Admission:** Admission to full-time PhD program are offered under the FA category (Project Staff)

• FA: The project staff will be working on the Sponsored Research Project (DST:EMR project) under Dr. Vipul Singh (PI of the project) at IIT Indore.

The project titled “**Development of Low Voltage, High Sensitivity Organic Photosensitive Transistors for Near Infrared Light Sensors**”. In this project the student is required to work on problem related to research and development of Organic Field Effect Transistors, in particular developing photosensitive transistors for NIR sensing applications. A candidate having prior experience of device fabrication and characterization would be desirable. Working on this project the student will get exposure to various aspects of organic/flexible electronics in particular and semiconductor device physics in general. The Scholarship will as per the rules/guidelines of the concerned Funding Agency.

**Last date of Online Application through <http://academic.iiti.ac.in:8080/nregistration.jsp>, is **August 23, 2017 (Wednesday) by 17:00 hrs.****

**IMPORTANT: DO NOT** post the application form, bank draft or any other document. Please refer to the instructions given below.

### Qualifying Degree and Examination (Minimum Eligibility)

1. Minimum first class\* Master degree in the relevant discipline of 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 UGC/CSIR-JRF qualification or equivalent fellowship viz. DST-Inspire, OR
3. B.Tech. 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 with valid GATE qualification or UGC/CSIR-JRF qualification or equivalent externally funded fellowship.

\*A first class is defined as

- (i) 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate or as specified by the university/institute, 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.

### Instructions:

1. PhD written test and/or interview would be conducted on **August 24, 2017 (Thursday) in Board room, POD 1B, IIT Indore, Simrol 453552, Indore.** **Candidates fulfilling the eligibility criteria** mentioned above are strongly encouraged to report for the written test and/or interview on **August 24, 2017 at 10:00 hrs.** Kindly be advised that the interviews may be also scheduled for the next day (**August 25, 2017**). Therefore, outstation candidates are requested to make their return ticket arrangements accordingly. If the prospective applicant fulfils the minimum eligibility criterion and is interested to pursue PhD program then he/she must appear in the selection process on **August 24-25, 2017**. Candidates must take a note that no separate email/communication will be sent to applicants regarding PhD selection process. **No communication in any form regarding short listed candidates, accommodation, change of date, syllabus of written test and/or interview etc. will be entertained. Mere fulfillment of the minimum eligibility does not entitle a selection in the PhD program.**
2. The candidates must apply online through our website (<http://academic.iiti.ac.in:8080/nregistration.jsp>).
3. **Candidates are strongly advised to bring the following documents with them on August 24, 2017, at 10:00 hrs (DO NOT post these documents)**
  - (a) Print out of the application form submitted online (subject to the condition that they fulfil the minimum eligibility criterion).
  - (b) Self-attested photocopies and originals of all relevant supporting documents such as degree certificates, mark sheets, date of birth certificate, etc., from X class onwards. Candidates may also bring original and attested photocopies of any other testimonials, documents or certificates that they wish to present before the selection committee.
  - (c) Two recent passport size photographs.
  - (d) An application fee of Rs. 100/- to be paid through a Demand Draft (DD) drawn in favour of "Registrar, IIT Indore" and payable at Indore. If fee has been paid online, then a print out of the receipt should be submitted on the day of interview, along with other documents.
  - (e) **Letters of recommendation duly signed and sealed in a confidential envelope from two/three referees who have known the candidate in professional capacity. The letters are mandatory for the PhD selection process and should be addressed to the Dr. Vipul Singh.**
4. Kindly note that documents should NOT be sent by post to IIT Indore. Prospective candidates MUST bring the above documents with them on **August 24, 2017**. Please ignore any other instruction given elsewhere with respect to sending the application form and documents. **No TADA will be paid for attending the PhD selection process.**
5. Candidates who wish to appear for the PhD selection process and fulfill the minimum eligibility criteria may also send their resume/CVs to Dr. Vipul Singh ([vipul@iiti.ac.in](mailto:vipul@iiti.ac.in)) informing him of their interest in addition to applying online through the website as stated above. The area of interest of Dr. Vipul Singh is given below. Candidates are strongly advised Dr. Singh's homepage for further detailed information.

**Dr. Vipul Singh**  
([vipul@iiti.ac.in](mailto:vipul@iiti.ac.in))

Dr. Vipul Singh's research group (Molecular & Nanoelectronics Research Group) focuses on wide range of topics primarily related to semiconductor device physics. Members of MNRG are presently engaged in carrying out research and development on the following themes:-

- i) Organic electronic devices viz. OFETs, OSCs, OLEDs and OPDs.
- ii) Hybrid optoelectronic devices.
- iii) ZnO based optoelectronic/photonic devices.
- iv) Surface plasmon resonance effect in optoelectronic devices.
- v) Biosensors/chemical sensors incorporating Graphene, CNTs and other functional materials.
- vi) Photo generated charge carrier dynamics in organic thin films.
- vii) Si- nanodevices, MOSFETs, SETs, and LFN in Si nanodevices etc.

For more details the prospective students are encouraged to visit our homepage: <http://iiti.ac.in/people/~vipul/>