

Indian Institute of Technology Indore

Simrol Campus, Khandwa Road, Indore – 453552

Discipline of Electrical Engineering

Advertisement for Admission to Ph.D. Program for autumn semester of AY 2018-19

IIT/Acad/PhD Admissions/Adv/EE-SV/Autumn

April 13, 2018

IIT Indore invites applications from highly motivated and research oriented students for admission for its **PhD Program** in the discipline of Electrical Engineering for the **Autumn semester of Academic Year (AY) 2018-19** as per the below mentioned categories of admission and time schedule. Candidates are strongly advised to visit the profiles of the faculty member at <http://ee.iiti.ac.in/faculty.html> before applying for the PhD Program.

Categories of Admission:

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

Time Schedule of PhD admission:

| | |
|--|------------------------------|
| Last date of Online Application through http://academic.iiti.ac.in:8080/nregistration.jsp (National applicants) | May 1, 2018 (Tuesday) |
| Last date of Online Application through http://academic.iiti.ac.in:8080/nregistration.jsp (International applicants) | May 31, 2018 (Thursday) |
| Date of Written Test and/or Interview | Shortlisted would be emailed |

Eligibility/Shortlisting Criterion (Qualifying Degree and Exam)

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. 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 fellowship

*The 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. No emails or communication in any form regarding shortlisted candidates, accommodation, change of interview date, syllabus of written test and/or interview etc. will be entertained. For more details and latest updates, kindly visit <http://ee.iiti.ac.in/index.html>.
2. The candidates must apply online through our website (<http://academic.iiti.ac.in:8080/nregistration.jsp>).
3. After submitting the application online, the eligible candidate has 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, Electrical Engineering** latest by **10 days from the deadline**
4. Shortlisted candidates are strongly advised to bring the following on the day of the interview and/or written test:
 - a) Originals of all relevant supporting documents such as degree certificates, mark sheets, date of birth certificate, etc., from Xth 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
 - b) A fee of Rs.100/- to be paid through SBI i-collect (<https://www.onlinesbi.com/prelogin/collecthome.htm>) then a print out of the online receipt/confirmation must be submitted, along with other documents. For international applicants this fees is exempted.
 - c) For SW candidates- NOC, Experience Certificate, last 3 months salary slip and Employer's PAN card should be submitted.
5. Candidates who wish to appear for the PhD selection process and fulfill the eligibility criteria may also send the resume /CVs to the faculty member whose area is of interest to them. The areas of interest and detailed profile of faculty member is given below. Candidates are strongly advised to visit web page of faculty member to know about ongoing work and areas of interest.

**Dr. Srivathsan Vasudevan &
Dr. Satya S Bulusu**

svasudevan@iiti.ac.in &
sbulusu@iiti.ac.in

Research Areas:

Photoacoustic Imaging: Biophotonics lab at IIT Indore works on the development of Photoacoustic Imaging and Sensing. This is a biomedical imaging technique that is oriented towards diagnostics of many diseases at the clinical level. Some of the diseases that we would like to apply this technique are cancer diagnosis, early stage tuberculosis and blood related diseases. The student should have good optics / electronic background and should be willing to learn new things related to biology and electronics. The candidate would be working on the development of this imaging system which needs electronic programming (Microcontrollers / FPGA) and also sufficient hardware electronics development. We are looking for students who wish to hone their knowledge in Physics, Engineering and Software Development to deliver new tools for investigations of several biological diseases.

Reducing computational complexity using FPGA:- We are looking for highly motivated students who are interested in embedded systems and FPGA. The project would involve physical modeling to be implemented on system on chip applications. A strong fundamental knowledge on microcontrollers (embedded C) and basic knowledge of FPGA is expected out of the student.

Please visit his homepage for more detail: <http://www.iiti.ac.in/people/~svasudevan>

For any queries please contact:

Dr. Srivathsan Vasudevan
Convenor Discipline Post-Graduate Committee (DPGC)
Discipline of Electrical Engineering
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