Ph.D Admissions 2023
Department of Electrical Engineering, IIT Bombay
Student Form

Click here for the live notice board for further updates.

Instructions
- The list of candidates who have been shortlisted in the preliminary shortlisting is available here.
- This year, there will be no written test and the shortlisted candidates will be called for interview.
- Interview will be conducted in online mode.
- A mail has been sent to all the shortlisted candidates with appropriate instructions.
- If you are shortlisted and have not received an email from Ph.D Admin, contact us at phdadmin@ee.iitb.ac.in.
- Shortlisted candidates should read the email carefully and follow the instructions.
- Mozilla Firefox and Google Chrome are the recommended browsers to fill the form.
- This portal will remain open till 16th November, 2023 12 PM.
- A detailed guide for filling the form is available here.
- Some frequently asked questions regarding the form and their answers are available here. Link. Please check before filling the form.
- For Descriptions of all projects and positions click here.
- Please login using your Applicant ID. Registration number, Email-id and code sent in the mail.
- Please note that you can submit the form any number of times. The details last filled in the form would be considered.
- Please note that your SOP etc. should be written by you. IIT Bombay uses professional plagiarism detection software to check for copying.
- For any queries contact us at phdadmin@ee.iitb.ac.in.
- More details will be communicated to the shortlisted candidates after 15th November 2023. Candidates are requested to follow up through the emails and the notice board.
- The dates for Main Interview (Online-mode) are 5th, 6th and 7th December 2023.
- Please keep checking this page for the updates in the above presented documents.
- If you do not fill this form by the deadline, then you will not be considered further.

Please provide the following information

Applicant ID / Sr. No. (Starts with PM)
Department Registration Number (Starts with REE)
Email ID
Please read the instructions in email before you begin.

- Please make sure that this phone number is accurate. Primary, Alternate numbers should not be same.
- Please make sure that this E-mail ID is accurate.
- 4.1, 4.2 can be same if both are gmail.
Any inaccuracies found will jeopardise your application.

Contact prospective guides ASAP if you answer is "Yes";
- Only for those who has applied under SW/EX/PS/IS/CT/FA/SF
- This is a multiple-select dropdown. If you have contacted multiple prospective guides, please select all their names.

Your statement of purpose need not be the same as filled in application form;
- Describe your research interests in detail and as best as you can within the word limit.

Academic Record

### S.2 Academic Record

<table>
<thead>
<tr>
<th>Masters</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>University/College</td>
<td></td>
</tr>
<tr>
<td>Degree</td>
<td></td>
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<td>Percentage/CPI</td>
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<td>Graduation Year</td>
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<table>
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<tr>
<th>Bachelors</th>
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<td></td>
</tr>
<tr>
<td>Graduation Year</td>
<td></td>
</tr>
</tbody>
</table>

### S.3 Statement of Purpose

19. Describe your research interest within 3000 characters

rf@w%<&()...
Project details

- Fill project details preferably related to your research interests.
- Describe what you have learnt new in the project different from your course work or how you have applied what you learnt in your course-work.
Publications & Relevant Courses

14. Publications, if any

Please list your published and accepted papers below. Please enter one paper in each textbox. For each paper, please give the authors, title, journal or conference name, venue (for journal papers), no. (for journal papers), page numbers, year, place (for conference papers).

14.1. Details of publication

| Publication 1 (1000 character) |

Add Publication

15. Ten most relevant courses/subjects you have studied

Enter at least 4 courses. You can also include fundamental courses which are useful for your research interest. Enter only numeric values in the "Grade Points/ marks" and "Out of (Max grade points/ marks)" fields.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Grade Points/ marks</th>
<th>Out of (Max grade points/ marks)</th>
<th>YYYY (Year of study)</th>
</tr>
</thead>
<tbody>
<tr>
<td>t1</td>
<td>8</td>
<td>10</td>
<td>2015</td>
</tr>
<tr>
<td>t2</td>
<td>8</td>
<td>10</td>
<td>2016</td>
</tr>
<tr>
<td>t3</td>
<td>9</td>
<td>10</td>
<td>2017</td>
</tr>
<tr>
<td>t4</td>
<td>9</td>
<td>10</td>
<td>2018</td>
</tr>
</tbody>
</table>

- You are required to fill at least 4 courses.
- Keep the information at hand.
You can choose only ONE broad area of research interest. (EE1 / EE2 / EE3 / EE5 / EE6 / EE7)

- Please take a look at the EE website – research, projects and project details link provided
- Your preferences will help match you to a suitable interview panel
**S.5 Preferences for Projects/Positions**

* You can have up to a maximum of 8 preferences

- If you wish to be considered only for TAP/RAP positions, you don’t need to select any of the projects in the drop down menu.
- For Descriptions of all positions and projects click here
- Please read the document of abstracts carefully and then fill the preferences.

24.0 Note:
- Only the names of the projects which are active under TAP/RAP categories for your chosen specialisation will be available in the drop down menu.
- Click on add preferences to select projects based on the specialisation which you have chosen.

### 24.1 Preference 1
- (TA) Teaching Assistant
- Please select one

### 24.2 Preference 2

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Department of Electrical Engineering, IIT Bombay

A document with description of all projects is available here

### More details for TAP/RAP projects

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Project Investigator</th>
<th>Desired Specialization</th>
<th>Abstract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid State Memory Technology</td>
<td>Prof. Sanjib Mondal</td>
<td>EE 5 (Electronic Systems), EE 6 (Integrated Circuit &amp; Systems), EE 7 (Solid State Devices)</td>
<td>The field of advanced flexible electronics has rapidly expanded over the last few decades pushing the development of low-cost, large area, and low-power consuming electronics such as system on-panel, system on chip, and system on substrate applications.</td>
</tr>
<tr>
<td>Novel FPGA-assisted coherent detection systems for energy efficient and high-capacity optical communication</td>
<td>Prof. Kumar Anoop</td>
<td>EE 1 (Communication &amp; Signal Processing), EE 5 (Electronic Systems), EE 6 (Integrated Circuit &amp; Systems)</td>
<td>The project involves the development of receiver algorithms for high-speed optical communication circuits. The student would learn and implement skills over a range of topics, and...</td>
</tr>
<tr>
<td>Solving Combinatorial Optimization Problems Using Spintronic and Quantum Hardware</td>
<td>Prof. Debajyoti Bhattacharya</td>
<td>EE 1 (Communication &amp; Signal Processing), EE 7 (Solid State Devices)</td>
<td>3D Abstract of the project: This project aims at efficient solving of various NP-hard combinatorial optimization problems though being computing, an emerging computing scheme that goes beyond conventional computing. We choose two platforms...</td>
</tr>
<tr>
<td>Alternative tunneling layers for p-TOPCon solar cell</td>
<td>Prof. Anil Kataria</td>
<td>EE 7 (Solid State Devices)</td>
<td>TOPCon solar cells is emerging as a replacement for PERC solar cells in manufacturing. However, the TOPCon performance is presently lower than heterojunction silicon solar cells due to the poor p-TOPCon contact. In this project, we...</td>
</tr>
</tbody>
</table>
Select the Preferences

If you have originally applied under PS/CT/IS/SW/FA/SF then you cannot choose any TA or project position. No options will appear for you.

If you originally applied under TA/RA categories, then suitable options will appear depending on your chosen specialization.

You can click here to add more preferences (upto max 8) as long more positions are available.
Select the Preferences as per instructions

S.5 Preferences for Projects/Positions

* You can have up to a maximum of 8 preferences

- If you wish to be considered only for TA/RA position, you don’t need to select any of the projects in the drop down menu below.
- For Descriptions of all positions and projects click here
- Please read the document of abstracts carefully and then fill the preferences.

S.5.1 You have selected both TA/RA and SW/EX/PS/IS/CT/FA/SF in your application form. You are required to select one of these options. Please select below:

24.0 Important Notes:
- The TA/RA positions are more competitive than SW/EX/PS/IS/CT/FA/SF.
- Admission under SW/EX/PS/IS/CT/FA/SF is subject to verification of documentary proof of eligibility for the appropriate category.
- Number of TA/RA seats is limited and usually competitive. You will not be considered for option 2 (SW/EX/PS/IS/CT/FA/SF) later if you choose option 1 (TA/RA) now.
- If you are eligible for SW/EX/PS/IS/CT/FA/SF and you opt for option 1 (TA/RA) now, you are foregoing the possibility of admission under the category SW/EX/PS/IS/CT/FA/SF.

1) TA/RA
2) Project Staff (PS)/Institute Staff (IS)/College Teacher (CT)/Sponsored (SW)/External (EX)/Fellowship Award (FA)/Self Financed (SF)

24.0 Note:
- Only the names of the projects which are active under TAP/RAP categories for your chosen specialization will be available in the drop down menu.
- Click on Add preferences to select projects based on the specialization which you have chosen.

24.1 Preference 1

[Add Preference] [Reset Preferences]
Submit..!

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Your Response has been recorded. Thank You For submitting your response.
You will be Redirected in 2 seconds

- Upon successful submission of form you will receive a mail with a copy of your responses
- If you encounter a problem at this stage more than twice – contact phdadmin@ee.iitb.ac.in