Ph.D Admissions 2022
Department of Electrical Engineering, IIT Bombay
Student Form

Click here for the live notice board for further updates.

Instructions

- This year, a screening test will be conducted in an in-person mode at IIT Bombay.
- The Screening Test (in-person mode) will be on 7th Dec 2022
- Syllabus to Screening test is available here. NEW
- Shortlisting for interview will happen in two steps: i) Preliminary shortlisting and the ii) Main shortlisting. The details of the process can be seen here.
- The list of candidates who have been shortlisted in the preliminary shortlisting, is available here.
- 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 1st December, 2022 4 PM
- A detailed guide for filling the form is available here.
- Some frequently asked questions and their answers are available here: Ink. 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 time. 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
- The dates for Main Interview(Offline-mode) are 8th, 9th Dec 2022, more details will be communicated to the shortlisted candidates on 7th Dec 2022.
- 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 for further rounds.

Please provide the following information

- Applicant ID / Sr. No. (Starts with PW)
- 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
● 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.
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 position, you don’t need to select any of the projects in the drop-down menu.
- Click on add preferences to select projects based on the specialization which you have chosen.
- For Descriptions of all positions and projects click here.
- Please read the document of abstracts carefully and then fill the preferences.

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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>A compact, efficient, universal EV charger with both 3-ph and 1-ph AC input.</td>
<td>prof. Shiralesh Chauhan</td>
<td>EE 3 (Power Electronics &amp; Power Systems)</td>
<td>This project aims to build a compact and efficient &quot;universal&quot; on-board EV charger compatible with both 3-ph and 1-ph AC input. Such a solution would enable both fast level-2 charging (around 22kW) in commercial/public places like malls, offices etc.</td>
</tr>
<tr>
<td>On-chip resource efficient classifiers for neural applications</td>
<td>Prof. Lae Nesrin Somappa</td>
<td>EE 1 (Communication &amp; Signal Processing), EE 6 (Integrated Circuit &amp; Systems)</td>
<td>We design closed-loop neuromodulation chips to target epileptic seizures. Parkinson’s tremor to realize next generation medical SoCs. Defeating the onset of tremors and seizures is highly relevant with a window size of ~8 ms. Due to the high channel...</td>
</tr>
<tr>
<td>Femtosecond spectroscopy of single photon source</td>
<td>Prof. Dipankar Saha</td>
<td>EE 7 (Solid State Devices)</td>
<td>Single photon sources are significant for quantum communication and cryptography, which are used as photonic qubits. This work involves the realization of these photonic qubits and the study of their dynamic characteristics using laser spectroscopy.</td>
</tr>
<tr>
<td>Micro Energy Converter Design Fabrication and Test</td>
<td>Prof. S.P. Datarapati</td>
<td>EE 2 (Power Electronics &amp; Power Systems), EE 5 (Electronic Systems), EE 7 (Solid State Devices)</td>
<td>Energy Converters are useful for scalable power source applications. Our objective is development of efficient hydrogen Fuel Cells (HFC) via micro/nano-manufacturing process steps...</td>
</tr>
<tr>
<td>Electric Vehicles (SUSTAINANCE)</td>
<td>Prof. Sandeep Arond &amp; Karanore Chatterjee</td>
<td>EE 3 (Power Electronics &amp; Power Systems)</td>
<td>In the area of Electric vehicles, we have 2 positions, one focusing on Motor design and other on Power electronics. If you are interested in either of them, you can apply.</td>
</tr>
<tr>
<td>Solar Inverters</td>
<td>Prof. Sandeep</td>
<td>EE 5 (Power Electronics &amp; Power Systems)</td>
<td>Work is relevant to power electronics, with focus on solar inverters. Additional knowledge of wide bandgap based power devices such as SiC or GaN would be</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/RA 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

- Project Staff (PS)/College Teacher (CT)/Sponsored (SW)/External

This will appear if you applied for both TA/RA and one of SW/EX/PS/IS/CT/FA in your original application
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