



**Indian Institute of Technology Indore,  
Department of Mechanical  
Engineering  
Organizes  
Science and Engineering Research  
Board (SERB) funded,  
High-end Workshop  
on Next-Generation Energy Storage  
Materials  
(July 3 – 10 July 2023)**

**About IIT Indore**

IIT Indore is in Indore which takes pride of being the cleanest city in India. It was established in 2009 with motto of ‘ज्ञानम सर्वजनहिताय (Knowledge is for the well-being of everyone)’. It belongs to IIT family which is known to provide best education in Engineering and Technology across India. IIT Indore has shown relentless effort in providing the best platform for education as well as research in several areas of science and technology.

**About KARYASHALA**

‘KARYASHALA’ scheme by SERB is meant for skill development training on topics required for scientific research work. It is an effort to improve research productivity of promising PG

and PhD students from universities and colleges through high-end workshops on specific themes. This program aims to provide opportunities to acquire specialized research skills.



**Registration Fee: NIL**

**Course benefits**

- Certificate to the participants on successful completion of the course
- Course materials and stationery/consumable items will be provided to the participants.

**General Information**

- **Eligibility:** MTech/M.S/PhD students of Mechanical, Energy, Materials Engineering, or any other specialization relevant to Energy Storage Materials

- **Accommodation** for participants may be provided at the IIT Indore hostel with catering facilities, if requested.
- Students selected for this workshop are eligible for **Travel allowance (TA) reimbursement** for their journey to IIT Indore from their hometown or host institute as well as return journey **as per SERB & GoI norms.**
- Daily necessary expenses such as stationery, consumables, accommodation, food etc. for participants will be covered under the funds approved by SERB as per norms.
- After the last date of registration, selected candidates will be intimated through email.
- Selected candidates will have to acknowledge participating in the workshop through return email failing which the waitlisted candidates may be called for attending the workshop.
- Candidates will be selected based on merit.

**Course Timings**  
10:00 AM – 04:30 PM  
**Venue**  
IIT Indore  
**Mode of Workshop**  
Physical

**Last Date of  
Registration**  
**5<sup>th</sup> June 2023**

➤ Register online using the following link:  
<https://forms.gle/m5mHFz1ZQEpyQEh27>

<p><b>Number of seats</b></p>	<p><b>Expert speakers</b></p>
<p>➤ <b>The total number of seats is limited to 25.</b></p>	
<p><b>Brief description about the workshop</b></p>	
<p>Due to several issues, including a rise in global energy consumption, dwindling fossil fuel supplies, and global warming, the globe is pursuing clean energy. Every day, a significant amount of energy is used around the globe. As a result, extensive research has been done to identify extremely effective techniques for storing and converting necessary energy. Lithium-ion batteries, sodium-ion batteries, and hybrid supercapacitors are a few examples of energy-storage devices that have been widely researched for power sources with high energy/power density and long operation lifespan. This workshop will provide fundamentals to researchers working on energy storage materials.</p>	<p>Experts from Academia (IITs, NITs, etc.) &amp; Industry will be delivering talks along with a few hands-on training sessions.</p>
<p><b>Tentative workshop contents</b></p>	
<ul style="list-style-type: none"> <li>● Next generation energy storage materials</li> <li>● Lithium-ion batteries</li> <li>● Supercapacitors</li> <li>● Sodium-Ion Batteries</li> <li>● Thin film rechargeable batteries</li> <li>● Battery characterization techniques</li> <li>● Hands-On-Training Sessions using Multiscale Physics.</li> </ul>	

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