



Funded by SERB (DST, C



# 4 weeks Internship Opportunity at IIT Indore on RECENT TRENDS IN MECHANICAL TESTING OF MATERIALS AND FAILURE ANALYSIS OF MATERIALS

3<sup>rd</sup> August – 30<sup>th</sup> August, 2022

Venue: IIT Indore

(Event under Accelerate Vigyan – Vritika Program, DST)

ORGANIZED BY

Department of Metallurgy Engineering & Materials Science,  
Indian Institute of Technology Indore

Indore – 453552, India.

## ABOUT THE PROGRAM

The objective of the program is to widen the technical knowledge in the field of mechanical testing of materials, failure analysis, materials characterization and advanced materials, In addition to technical sessions experimental demonstration and hands on training sessions for using advanced mechanical testing equipment and materials characterization equipment will also be the part of program. The technical sessions and virtual training / hands on training includes following topics fatigue behavior of materials, fretting fatigue, creep behavior of materials and testing, high temperature deformation, high strain rate testing, failure analysis sample preparation for TEM and etc. To provide technical and practical knowledge on additive manufacturing through fusion based and friction based process. This internship is designed to have interactive lectures on the topics related to current trends in mechanical testing of materials, failure analysis, alloy development and characterization along with virtual training / hands on training related to mechanical behavior of materials, failure analysis, and report submission by participating students.

## WHO CAN APPLY ?

- Highly motivated PG students from any recognized university from India interested to enhance their knowledge in the area of mechanical testing of materials, failure analysis, alloy development (preferably from mechanical, material, manufacturing, production, automotive / aerospace/ applied mechanics/ or equivalent branches of engineering and science) are eligible to apply.
- Number of participants limited. Shortlisted candidates will be informed through E.Mail.
- For outstation students to and fro train / Bus fare (sleeper class) will be provided and accommodation will be provided at IITI hostel free of cost.

**Application Process:** Interested and eligible students can submit their online application form mentioned in the link.

<https://docs.google.com/forms/d/1Ifq2waCT3A6YtuTpSIaU474I8YJd1qk221QExE1sH0/edit>

**Last date for submitting application : 20.07.2022 (seats are limited, please submit at the earliest).**

**Internship Fee:** The internship is under Accelerate Vigyan – Vritika Program, supported by DST there is **no fee** for the participating students.

**Certificate:** After completion of the internship and submitting brief report certificate will be issued

## ABOUT IIT INDORE

Indian Institute of Technology Indore (IIT Indore), is an institute of national importance established by the Government of India in 2009. IIT Indore campus, spread over an area of around 500 acre. IIT Indore is equipped with world class research infrastructure, with renewed faculty members.

## ABOUT THE Department of MEMS IIT Indore

The department of Metallurgy Engineering and Materials Science (MEMS) is functioning full fledged from 2016. The emphasis of the discipline is to promote multidisciplinary research to find amicable solutions for the real- world problems and work on the cutting-edge research problems that benefits society related to materials. The department is offering UG program, 2 PG programs with one specialized in Metallurgy Engineering, other in Materials science and PhD program.

## COURSE CO-ORDINATOR

**Dr. Jayaprakash Murugesan**

Assistant Professor, Discipline of Metallurgy Engineering and Materials Science,  
Indian Institute of Technology Indore. Indore – 453552.

Email-id: jayaprakash@iiti.ac.in ,Mobile: +91-9755611891

(if any problem in submitting online application please write to [jayaprakash@iiti.ac.in](mailto:jayaprakash@iiti.ac.in)/ call :9755611891)

