



30-Days Internship Opportunity at IIT Indore on

## Twin Wire Arc Additive Manufacturing of Advanced Novel Alloys - Design and Fabrication



**(Under Accelerate Vigyan-Vritika Program  
An Initiative by SERB, Govt. of India)**



Organized by,  
**Dept. of Mechanical Engineering,  
Indian Institute of Technology Indore**



**17<sup>th</sup> June-15<sup>th</sup> July, 2023**

### **ABOUT THE PROGRAM**

Medium Entropy Alloys, consisting of multi principal alloy elements, have gained much attention and identified as novel alloys because of their design flexibility and superior properties. Recently, intensive investigations on functionally graded alloys and metal matrix composites using the twin-wire arc additive manufacturing (T-WAAM) process have been done. The objective of internship is to design and develop the optimum compositions of CoCrNi, CoFeNi medium entropy alloys by using the T-WAAM system. Also, hands-on training to related to microstructure and mechanical properties will be provided alongwith exposure to numerical simulation.

### **ABOUT IIT INDORE**

Indian Institute of Technology Indore (IIT Indore) is a distinguished academic institution established in 2009 in Indore, Madhya Pradesh. The department of mechanical Engineering emphasizes on employing scientific and engineering methodologies to advance fundamental knowledge and practical applications to find amicable solutions for the real-world problems and work on the cutting-edge research problems that benefits the society in large.

### **IMPORTANT INFORMATION**

**Eligibility:** Highly motivated PG / PhD students from any recognized university from India interested to enhance their knowledge in the domain of T-WAAM of advanced novel alloys and their property evaluation.

**Travel Expenses** will be Reimbursed to the selected applicants upon producing the original third AC sleeper train/bus tickets as per SERB norms.

**Accommodation** for participants will be provided in the IIT Indore hostel with catering services for free.

### **IMPORTANT DATES**

**Internship Duration:** 17<sup>th</sup> June-15<sup>th</sup> July 2023

**Application Opens:** 27<sup>th</sup> May 2023

**Application Deadline:** 10<sup>th</sup> June 2023

**Number of Seats:** 04

**Location:** POD 1B-401, IIT Indore

### **HOW TO APPLY**

Applicants need to register using the Google form link: [Application Form](#)

Below is the link for NOC form: [NOC](#)

**All the registered participants will be provided with the certificate after successful completion of the program.**

### **COURSE CO-ORDINATOR**

**Dr. Dan Sathiaraj,**

Assistant Professor, Department of Mechanical Engineering, IIT Indore.

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