

**Central Institute of Petrochemicals Engineering & Technology (CIPET),
SARP-Advanced Research School for Technology & Product Simulation,
Chennai, Tamil Nadu-600032**

Inviting Applications for “VRITIKA” Training and Skill Internship Program -2023-24

Duration: 15.07.2023 to 14.09.2023

Place: CIPET:SARP-ARSTPS, Chennai

Title: Design and Development of Automobile Components via Multi Jet Fusion (MJF) and Selective Laser Melting (SLM) 3D Printer

Scope of the Program “VRITIKA”:

‘VRITIKA’ is the call to provide Training and Skill Internship to post-graduate (PG) and doctoral students from colleges, universities and institutions in handling advanced manufacturing instruments. This internship aims to create a strong research interest in science and engineering and to provide technical insight in the field of advanced additive manufacturing technologies and its analyzing strategies.

CIPET:SARP-ARSTPS: ARSTPS is an exclusive R&D wing of CIPET, established at Chennai, Tamil Nadu, to promote advanced technological innovations. The laboratories have state-of-the-art infrastructure and instrumentation facilities to undertake various developmental activities including CAD design, Conceptual Modelling, Product Development, Simulation, Analysis and R&D of Polymers for Commercial, Healthcare and Defence Sectors of the country. In particular, our group focuses on advanced manufacturing technologies for energy, environment and biomedical applications.

Programme Objective:

This internship program aims to develop a skill in additive manufacturing technologies for PG/PhD students from universities/colleges/institutes. The internship period will primarily expose the participants to the 3D-designing software (CAD/CAM), Reverse engineering process of components, Multi Jet Fusion (MJF) and Selective Laser Melting (SLM) -3D Printing methods, analysis/simulation software (ANSYS) and Validation of prototypes. Also, hands-on training on various software and fabrication methodologies will be provided.

Who can Apply?

Interested Final Year PG students having first class in Physics/ Materials Science/Polymer Science/Mechanical/ Manufacturing Engineering and/or Ph.D. students (First year) are eligible to apply.

How to Apply?

Step 1: The candidate shall apply for the Internship program by filling the attached form in the prescribed format through their head of the department/ institute.

Step 2: Take a print out of the filled form and sign at the bottom of all pages. <https://www.cipet.gov.in/>

Step 3: The application shall be accompanied by self-attested copies of the relevant documents and a No Objection Certificate (NOC) obtained from the Head of the department/institute of the parent institution.

Step 4: E-mail the scanned copy of the signed registration form to arstpscipet@gmail.com with supportive documents on or before 20.06.2023.

Selection Process:

Selection of participants will be done by the concerned department of the organizing institute based on:

1. Academic performance in university examinations (CGPA / Percentage of marks).
2. Academic/co-curricular contests participated and other awards/distinctions obtained.

Note: A list of selected candidates will be intimated through email.

Event Organizer:

Dr. R. Ananthakumar, Jr. Scientist

CIPET:SARP-Advanced Research School for Technology & Product Simulation (ARSTPS),

T.V.K. Industrial Estate, Chennai, Tamil Nadu- 600 032 .

Mobile: +91-8895001133; Email: ananth@cipet.gov.in

Website: <https://www.cipet.gov.in/> & www.arstps.gov.in/

<https://ananthkaist.wixsite.com/ar-group>

Details of Internship:

- * Duration: 15.07.2023 to 14.09.2023
- * Venue: CIPET: SARP-ARSTPS, Chennai, Tamil Nadu
- * Number of Positions: 5
- * Submission Deadline: 30/06/2023
- * Only shortlisted students shall be communicated through email.
- * No stipend will be provided for the internship.
- * Certificate will be provided to the participants after the successful completion of the internship tenure (Submission of work report).

Nature of support

- * The internship will give the daily necessary expenses such as stationery, consumables, accommodation, food, etc.
- * The period of the Training and Skill Internship shall be for 2 months.
- * The participating students will also be eligible for TA reimbursement for their journey between the host institute and their hometown/home institute, both ways, as per GoI norms.

Terms and condition:

- * The participants would be assigned tasks /assignment as per the Internship schedule by the event organizer.
- * The participants should work accordingly and prepare a work report to be submitted after completion of the Internship.
- * Participants not completing the work within the requisite period will not be issued any certificate.
- * The IPR of the research work will be reserved by the institute which cannot be used by the participant without permission of the concerned authority.
- * The participants should abide by the rules and regulations of the institution and follow laboratory protocols.