Job Title: **Additive Manufacturing Intern**

Department: **Polymer Additive Manufacturing – Centre of Excellence in Design (D-CoE)**
Location: IISc / Polymer AM Lab
Duration: **3/6 months**

Stipend: **10K per month**

About the Role:

We are seeking a motivated intern to support **day-to-day operations** of the polymer additive manufacturing facility on advanced 3D Printing technologies, including, FDM, MSLA and MJP systems. The intern will work closely with the facility team to manage equipment, materials, and process workflows, ensuring smooth execution of printing tasks and proper maintenance of the lab. This role is ideal for candidates who are detail-oriented and interested in learning the **practical aspects of running** a high-tech 3D printing lab.

Key Responsibilities:

- Assist in **3D printer operations**, including machine setup, Pre-processing (Slicing), print monitoring, and post-processing.
- Assist in **design and preparation of CAD models** for 3D Printing.
- Manage **material inventory** (filaments, resins, consumables) and update stock records.
- Perform **basic troubleshooting and maintenance** of polymer 3D printers under supervision.
- Support **quality checks** of printed parts (dimensional accuracy using CMM & VMS).
- Document daily operations, print logs, and process parameters.
- Coordinate with students/researchers for their printing requirements.
- Ensure **lab safety, cleanliness, and organization**.
- Support the facility team in preparing parts for training programs and workshops.

Required Skills & Qualifications

- Undergraduate student in **Mechanical/Manufacturing/Materials Engineering/Design Engineer** or related fields.
- Knowledge of **CAD modelling preferred** (SolidWorks/ Autodesk Fusion 360)

- Basic knowledge of **3D printing/additive manufacturing** preferred (training will be provided).
- Basic knowledge of CMM (training will be provided).
- Eagerness to learn and ability to follow standard procedures.
- Attention to detail and commitment to maintaining a safe workspace.
- Strong organizational and documentation skills.

Learning Outcomes

The intern will gain hands-on exposure to:

- Operation of different polymer additive manufacturing technologies (FDM, SLA, etc.).
- End-to-end workflow of a 3D printing facility.
- Material handling and print optimization.
- Troubleshooting common machine and print issues.
- Best practices in lab and equipment management.

If you are an innovative thinker with a strong interest in additive manufacturing and hands-on prototyping, we encourage you to apply! Please send your resume and a brief portfolio of relevant projects to dcoe@fsid-iisc.in with CC to calvin@fsid-iisc.in by 22nd September 2025.