



Centre for Composites Materials Research

Dr Soundhar A

Associate Professor (Research), Mechanical Engineering

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Dr. Soundhar Arumugam is an Associate Professor (Research) in the Department of Mechanical Engineering, specializing in **natural fiber-reinforced biopolymers** and **sustainable materials**. With a strong background in **composites, additive manufacturing, and biodegradable polymers**, his research emphasizes the **mechanical and tribological behavior** of materials like **PLA reinforced with banana and coconut fibers**. He has postdoctoral experience from **IIT Guwahati and IIT Madras**, and has published **30+ research articles** in reputed international journals. He has also presented his work at various international platforms and currently chairs technical sessions in advanced materials conferences. Dr. Soundhar leads a **4-lakh funded project** under TIH, focused on developing **Supercritical Foamed 3D-Printed Biopolymer-Based Multipurpose ROV** for applications such as **oil spill recovery, swim assistance, and surveillance**.

Looking for PhD students to work in the following areas

- Development of food packaging materials
- Design and development of composites for aerospace applications
- Additive manufacturing

Facilities available

- ✓ Filament Extruder, Scanning electron microscopy, FDM 3D printer,
- ✓ Other necessary facilities for research activities
- ✓ Free access of research articles in Elsevier journals

Benefits and opportunities

- Monthly fellowship of Rs. 25,000/- for three years
- Publication in SCI-indexed high impact journals
- National and International collaborations

Contact details

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