

3D PRINTING INSIGHT

MAY 2025

**THE INSIGHT INTO
3D PRINTING &
ADDITIVE MANUFACTURING
TECHNOLOGY**



3D PRINTING INSIGHT



PRESIDENT'S REPORT



Dear Members & Patrons,

We are pleased to present the February 2025 issue of 3D Printing Insight, a collaborative effort between the Additive Manufacturing Society of India (AMSI) and the Indian Women in 3D Printing (IW3DP). This edition highlights AMSI's vision to establish India as a global hub for additive manufacturing, focusing on:

- **MADE IN INDIA – MADE FOR THE WORLD:** Developing industry-grade AM machines, materials, and software for global markets.
- **Enhance 3D Printing Applications:** Expanding AM across aerospace, space, defense, healthcare, and automotive sectors.
- **Skilling and Upskilling:** Providing industry-driven training in AM, Industry 4.0, and digital twin technologies.
- **Mentoring and Incubation:** Supporting startups and innovators in the AM domain.
- **Global Networking:** Strengthening partnerships through conferences and technology showcases.

Join Us at AMNEXT-25!

We invite you to AMNEXT-25, the 14th International Conference & Expo on 3D Printing and Additive Manufacturing Technologies, scheduled for September 11-12, 2025, at The Lalit Ashok, Bengaluru, India.

Conference Highlights:

- Digital Twin Experience Zone
- DfAM & Simulation Software
- Reverse Engineering & Digital Manufacturing
- Aerospace, Space & Defense Innovations
- Healthcare Innovations in 3D Printing

We thank our corporate, academic partners & esteemed members for their continuous support. Let's collaborate to drive the future of additive manufacturing!

Sincerely,

Dr. L. Jyothish Kumar
President, AMSI



3D PRINTING INSIGHT



CHAIRWOMAN'S REPORT



Dear Esteemed Members, Partners, and Supporters,
As we embrace the boundless possibilities of 2025, I am filled with immense pride and excitement for the transformative journey we are undertaking together through the Indian Women in 3D Printing Society (IW3DP). The February edition of 3D Printing Insight not only reflects our collective achievements but also sets the stage for a year of groundbreaking collaboration, learning, and empowerment in additive manufacturing (AM).

A Year of Connection and Collaboration

Networking lies at the heart of innovation. This year, we are amplifying opportunities to connect, share knowledge, and build lasting partnerships that transcend borders and disciplines. Our collaboration with the Additive Manufacturing Society of India (AMSI) for AMNEXT-25 (September 11-12, Bengaluru) is a testament to this vision. This premier event will be featuring:

- Expert-led workshops on emerging technologies like AI-driven AM, digital twins, and industrial IoT.
- Startup and R&D pavilions, where pioneers will showcase disruptive solutions.

- Panel discussions on aerospace, healthcare, and defense applications, highlighting women-led innovations.

I urge each of you—whether you're a student, educator, industry professional, or entrepreneur—to join us at AMNEXT-25. Let's leverage this platform to forge alliances, spark dialogues, and co-create the future of AM.

Empowering the Next Generation

The resounding success of Envision 3D, our student design challenge, has reaffirmed the incredible potential of young minds in AM. The creativity and technical prowess displayed by participants inspire us to push boundaries further. We prepare for the next edition which will be hosted in association with SRM University, Chennai. Let's continue to nurture this ecosystem where talent thrives.

None of this would be possible without your unwavering support. To our academic partners, corporate members, and volunteers—thank you for believing in our mission. Let's keep breaking barriers and setting new benchmarks.

Let's make 2025 a year where innovation meets inclusivity, and where every voice in AM is heard and celebrated.

With enthusiasm and determination,

Best Regards

Dr. Kavya Shree K

Chairwoman, Indian Women in 3D Printing Society





ORGANIZATION UPDATES

ADDITIVE MANUFACTURING SOCIETY OF INDIA

Welcoming Our New Lifetime Corporate Member – Vipra Industrial Additive Solutions



We are delighted to announce that Ms. Vinaya Vishwanath, Partner at Vipra Industrial Additive Solutions, has joined the Additive Manufacturing Society of India (AMSI) as a Lifetime Corporate Member.

Her esteemed association with AMSI signifies a shared vision and dedication toward the advancement of additive manufacturing technologies and fostering a culture of innovation within the industry.

We warmly welcome **Ms. Vinaya Vishwanath** and Vipra Industrial Additive Solutions to the AMSI community and look forward to a long-standing and impactful collaboration.

Together, let us continue to build a stronger ecosystem for Additive Manufacturing in India.

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ORGANIZATION UPDATES

ADDITIVE MANUFACTURING SOCIETY OF INDIA

SRM University Officials Visit AMSI Industry 4.0 Skill Enhancement Training Centre



We were pleased to host officials from SRM University during their recent visit to the AMSI Industry 4.0 Skill Enhancement Training Centre.

The visit provided an opportunity for fruitful discussions on collaborative initiatives, training programs, and joint efforts to strengthen industry-academia partnerships in the field of Additive Manufacturing and Industry 4.0 technologies.

AMSI remains committed to advancing skill development, innovation, and knowledge-sharing through strategic collaborations with leading academic institutions. We look forward to building a strong and impactful association with SRM University in the days to come.



ORGANIZATION UPDATES

ADDITIVE MANUFACTURING SOCIETY OF INDIA

IW3DP Participates in ASME Panel on Additive Manufacturing in the Energy Sector



Indian Women in 3D Printing (IW3DP) was proud to be part of the distinguished panel discussion organized by ASME Chandigarh Region on the theme:

"How Additive Manufacturing is Ushering in a New Era for Mechanical Engineering in the Energy Domain: Opportunities, Challenges, and Future Prospects."

Held in collaboration with CSIR-CSIO, the event brought together experts and industry professionals to share insights on the evolving role of Additive Manufacturing (AM) in addressing the dynamic needs of the energy sector. The session highlighted key opportunities for mechanical engineers, addressed challenges in AM adoption, and explored future pathways for innovation and growth.

IW3DP continues to champion the participation and leadership of women in advanced manufacturing and was honored to contribute to this meaningful dialogue on the intersection of technology, energy, and engineering.

We extend our appreciation to the organizers and fellow panelists for the enriching exchange and look forward to continued collaborations that drive inclusive innovation in the AM ecosystem.



ORGANIZATION UPDATES

ADDITIVE MANUFACTURING SOCIETY OF INDIA

Call for Entries: ENVISION 3D – 2nd Edition (2025–26)



Indian Women in 3D Printing (IW3DP), in collaboration with the Additive Manufacturing Society of India (AMSI) and the Central Manufacturing Technology Institute (CMTI), is pleased to announce the second edition of the ENVISION 3D – Design Challenge, an exciting opportunity for students to explore the transformative potential of 3D printing technology. This competition is designed to nurture technical innovation, design thinking, and problem-solving skills among students through hands-on experience in prototyping and additive manufacturing.

☀ Key Objectives:

- Encourage innovation through 3D printing
- Apply design thinking to real-world problems
- Build functional, sustainable prototypes
- Promote diversity and inclusivity in engineering



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Competition Structure:

- Open to: Students from all academic streams
- Team Size: Maximum 3 members
- Phases: Ideation → Design → Prototype Development → Submission

Important Dates:

- Registration Open: July 10–30, 2025
- Submission Deadline: August 31, 2025
- Finalists Announcement: September 1, 2025
- Final Presentations: September 11–12, 2025
- (During the 14th International Conference on AM, Bengaluru)

 Registration Fee: ₹3000 per team (inclusive of GST)

 Register Here: <https://forms.gle/RxRhGMcQnVavDJpM6>

Submission Requirements:

- A 2–4 minute video showcasing ideation, iteration, and the working prototype
- Format: MP4/MOV | Resolution: Min. 720p | Size: Max. 250 MB
- Upload Video: [Google Drive Folder](#)
- Submit Form: [Submission Form](#)

Top 5 Teams Receive:

- Presentation opportunity at the AMSI International Conference 2025
- Cash Prize: ₹10,000 per winning team
- Recognition certificates from CMTI, AMSI, and IW3DP
- Featured in official newsletters and social media
- Mentorship opportunities with AM industry experts

Let your creativity shape the future of design and manufacturing.

For queries, write to us at:

 contact@amsi.org.in | secretary@iw3dp.com

 www.amsi.org.in | www.iw3dp.com

 +91 9483717449



UPCOMING EVENTS



14th International Conference + Expo 3D Printing & Additive Manufacturing Technologies - AM 2025

11 - 12th September 2025

The Lalit Ashok, Bengaluru, INDIA

Call for Papers

We invite researchers, academicians, professionals and industry experts to contribute and share their knowledge, experiences and research outcomes at the International Conference on 3D Printing and Additive Manufacturing Technologies - 2025.

The conference aims to exchange ideas and explore innovative solutions for academic & industry applications.

Submission Guidelines

- The paper should be in IEEE format, and should not exceed 7 pages.
- The full paper should include the title of the paper, author's name, author's affiliation, email ID, corresponding other details, etc., with font size 12, font style - Times New Roman, line space of 2 points, headings - 12 + Bold.
- Papers must be in PDF FORMAT.
- All the submitted conference papers will be peer-reviewed by the experts.
- The accepted papers will be published in the International Journals.

Paper submission details

Email your submissions to:

✉ am@amsi.org.in

www.amsi.org.in

am@amsi.org.in



UPCOMING EVENTS



14th International Conference + Expo 3D Printing & Additive Manufacturing Technologies - AM 2025

11 - 12th September 2025 The Lalit Ashok, Bengaluru, INDIA

Highlights of amnnext - 25



Showcase of Advanced AM Technologies: Hardware, Software, and Materials



Expert Keynotes and Insightful Panel Discussions



Hands-On Interactive Workshops



Networking to Build the AM Ecosystem



Start-up & R&D Pavilion for Innovation Display



Design & 3D Printing Competitions with Awards



Buyer-Seller Networking Meetings

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www.iw3dp.com



UPCOMING EVENTS



amnext-25
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14th International Conference + Expo on
3D Printing & Additive Manufacturing
Technologies

11 - 12 September 2025

The Lalit Ashok, Bengaluru, INDIA

*“Unlocking Potential with
3D Printing Skill Enhancement”*

- Design for Additive Manufacturing
- 3D Printing & Industrial Application
- Artificial intelligence (AI) & Machine learning (ML)
- Industrial Internet of Things (IIoT)
- Digital Twin & Reverse Engineering

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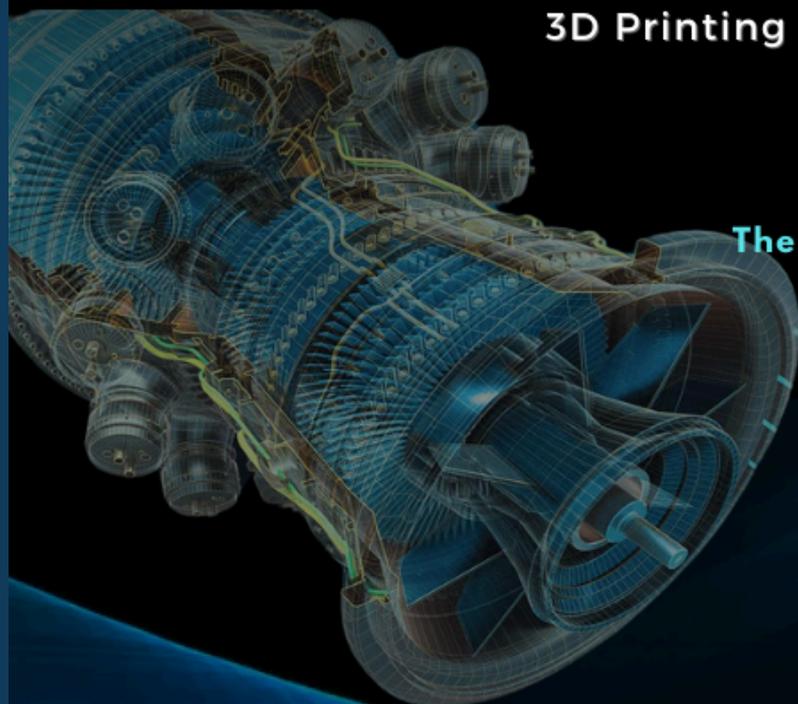
amnnext-25

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11 - 12 September 2025

The Lalit Ashok, Bengaluru, INDIA



Digital Twin Experience Zone @ amnnext 25

- **Digital Twin, Reverse Engineering & Digital Manufacturing**
 - Digital Twin & Integration Software Platform
 - 3D Scanner Hardware for Reality Capture & Reverse Engineering Software
 - Software for Design (DfAM) & Simulation
- **AR & VR Innovation - Hardware & Software**
- **AI/ ML in Additive Manufacturing, Statistical Tools**
- **Smart Digital Reality : Innovation, 3D Printing & Automation**

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3D Printing Applications in Aerospace, Space & Defence

- Additive Manufacturing for light weight, fuel efficient, critical structural aircraft and spacecraft parts.
- Laser Powder Bed Fusion & Direct Energy Deposition for Multimaterial Space & Aircraft parts
- Additive Manufacturing for Maintenance, Repair & Overall (MRO) using Advance Metal Material
- Qualification & Certification Process of 3D Printed parts in Aerospace, Space & Defence

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3D Printing Applications in Healthcare

- 3D Medical Printing for Dental Applications
- Bio-Printing Artificial Organs & Tissues
- Improved Surgical Results with 3D Printed Tools and Custom Implants in Ceramic, Plastic, and Metals
- Customized Medical Devices
- Medical 3D Printing Hardware & Software Solutions

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AMSI
ADDITIVE MANUFACTURING
SOCIETY OF INDIA

ACADEMIC PARTNERS



NIE
The National Institute of Engineering
ESTD - 1946

National Institute of Engineering, Mysore



VIT
Vellore Institute of Technology
(Decreed to be University under section 3 of U.G.C. Act, 1956)

Vellore Institute of Technology



NITTE
EDUCATION TRUST
NITTE MEENAKSHI
INSTITUTE OF TECHNOLOGY

NITTE Meenakshi Institute of Technology



Ajay Kumar Garg Engineering College



SRM Institute of Science and Technology



Ganpat University



BIT Sindri Alumni Association Of North America

TECHNOLOGY PARTNERS



MEDIA PARTNERS





INDIAN WOMEN IN 3D PRINTING

INSTITUTIONAL MEMBERS



Vellore Institute of Technology



**Dayanand Sagar
College of
Engineering**



**RV College of
Engineering**



**National Institute of
Engineering, Mysore**



**NITTE Meenakshi
Institute of Technology**



**BMS College of
Engineering**



VVCE

**Vidya Vardhaka College
of Engineering**

CORPORATE MEMBERS



LAYERX
ON DEMAND MANUFACTURING