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AM Matters Q3 2026

Singapore Highlights



How Singapore's 3D-Printed Antenna is Redefining Space-Ready Manufacturing

Designed and built in Singapore with additive manufacturing, the NuLink antennae will begin receiving low-power signals from Earth as the satellite completes its Launch Early Orbit Phase. This milestone signals a new approach on how space hardware can be designed, produced, and scaled.

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Singapore researchers shaping biofabrication and biomanufacturing

Singapore-based researchers published a comprehensive review in Bio-Design and Manufacturing mapping the country's contributions to biofabrication and biomanufacturing. The review covers waste-derived biomaterials, 3D bioprinting, cultivated food, regenerative medicine, and bioelectronics.

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Collaboration Advancing AI-Driven Materials Discovery in Singapore

A*STAR IMRE, ATLANT 3D and NAMIC signed a MoU to establish a materials research hub focused on developing advanced materials in Singapore. The hub aims to accelerate materials innovation by combining academic research with industrial capabilities, supporting Singapore's strategic push into high-value manufacturing.

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Industry Highlights



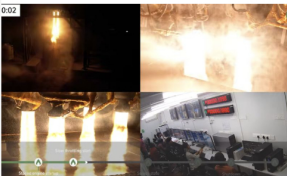
Metal Additive Manufacturing Summer 2026 Issue

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Inside the Summer 2026 issue, readers will find industry news and technical insight from across the global metal AM sector, including:

- DEEP Manufacturing and large-format metal AM
- 6K Additive's titanium scrap-to-powder production
- Pelagus: Metal AM for maritime spare parts
- SAE AMS AM standards for flight-critical applications
- Incodema3D and HK Technologies' VacuSift powder handling system

From powder production to production-scale applications, this issue offers a clear snapshot of where metal AM is moving next.



India's First Four-Engine Cluster Firing Marks New Frontier for Agnikul Cosmos

Chennai-based Agnikul Cosmos achieved a major propulsion milestone by simultaneously firing four semi-cryogenic rocket engines, all 3D printed as individual parts, which were developed by

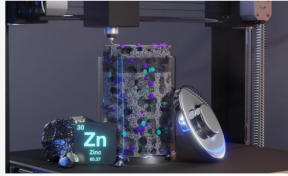


Additive Manufacturing in Oil & Gas: ExxonMobil's transition to LMD for Titanium components

ExxonMobil's Baton Rouge refinery used Melillo's wire-laser metal deposition (LMD) technology to redesign an anti-wicking device for thermocouple

individual single-piece components developed in-house. This is the first such test in India involving semi-cryogenic engines, advancing India's capabilities in 3D printed rocket engine technology for space launch applications.

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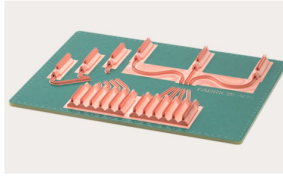
3D Printed Zinc-Ion Battery With Seven Times More Energy

Researchers at the University of California, Los Angeles (UCLA) developed a 3D printed hybrid zinc-ion battery that can store more than seven times as much energy as similar devices, while retaining 82% of its capacity after 1,500 charge and discharge cycles. This technology could one day help store electricity from renewable energy sources such as solar and wind power, as zinc is cheaper, easier to find and zinc-based batteries are less likely to overheat.

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wires. Using titanium 04 and non-planar printing, ExxonMobil reduced unit cost by 42%, and cut production lead time by 90%. The case demonstrates AM's viability for critical oil & gas components requiring corrosion resistance.

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TDK Makes Sound AI Infrastructure Bet with Fabric8Labs Acquisition

Japanese electronics giant TDK agreed to acquire San Diego-based Fabric8Labs for up to \$400M in an all-cash deal. Fabric8Labs uses proprietary Electrochemical Additive Manufacturing to produce thermal management hardware for data centers and semiconductors. The acquisition accelerates TDK's AI infrastructure strategy by combining its advanced packaging capabilities with Fabric8Labs' cooling technology to improve compute power efficiency in data centers.

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Automated, digitally networked process chains key to scaling AM

BMW Group is investing in new systems, larger build volumes, and digitally connected process chains to scale AM. Producing over 1.6 million 3D printed parts since 2020 from its Additive Manufacturing Campus, BMW is focusing on WAAM for large-scale metal components with series production beginning in 2027. The company emphasises open-material systems and open interfaces for faster production integration.

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Alpine and Lacoste's A290 Rallye features ERPRO 3D printed seat

French automaker Alpine and fashion brand Lacoste collaborated on a one-off A290 Rallye vehicle, incorporating 3D printed lattice seat structures produced by ERPRO. The additively manufactured components demonstrate how lifestyle brand partnerships can drive adoption of advanced AM techniques in automotive interiors, combining aesthetic design with structural performance in limited-edition vehicles.

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WASP completes Itaca sustainable 3D printed farm

Italian construction 3D printing company WASP completed the Itaca sustainable 3D printed farm as part of its Shamballa project, a utopian 3D printing laboratory and community. The development integrates housing, food production, healthcare, and energy systems using additive manufacturing, showcasing sustainable construction approaches for self-sufficient communities.

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Korean Register's first certification for 3D printed metal repair

Korean Register (KR) awarded its first manufacturing procedure certificate for additive manufacturing repair technology, certifying a process that restores damaged sections of metal structures using 3D printing rather than replacing entire parts. This milestone marked the first instance of KR formally verifying the safety and reliability of an additive manufacturing process built for repair in the maintenance field.

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Events





Join us at the NAMIC Global Additive Manufacturing Summit 2026. This year's theme is **Building Resilient Industries with Additive Manufacturing and AI**. Across four themed tracks, our panels will explore how AM and AI are moving from emerging technologies into critical enablers of resilient, intelligent and future-ready industries.

Held in conjunction with **Industrial Transformation ASIA-PACIFIC 2026**, a Hannover Messe Event.

[Click here for more details](#)



The 16th AM COE Snapshot Workshop, themed AI-Enabled Digital Manufacturing for Agile and Resilient Supply Chains, is held in conjunction with the ASTM F42 / ISOTC 261 committee meetings in Singapore, bringing standards developers and industry practitioners into the same room. Speakers from industry and research institutes will share practical examples of how these technologies are being applied in industrial settings. Register using the code **<SSW16-SGP10>** for a 10% discount.

[Event website](#)



ITAP 2026 marks the relaunch of Asia-Pacific's industrial transformation platform under a new partnership between Deutsche Messe and the Singapore Manufacturing Federation. With a stronger focus on practical implementation, senior industry engagement and regional collaboration, the event reconnects manufacturers with the technologies, expertise and partnerships shaping the future of industry while laying the foundation for the full-scale ITAP 2027 at Marina Bay Sands.

[Event website](#)

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