



Applied Startup Technology & Research
Accelerator - ASTRA 2024

WINNING TOGETHER

Collaborating with Materials to Systems™
ecosystem to Make Possible® a Better Future



WORLD'S #1

semiconductor and display equipment company

Applied Materials, Inc. is the leader in **materials engineering** solutions used to produce virtually every new chip and advanced display in the world. Our expertise in modifying materials at atomic levels and on an industrial scale enables customers to transform possibilities into reality. At Applied Materials, our innovations **Make Possible® a Better Future.**



\$26.52 billion
revenue



\$3.1 billion
R&D investment



~19,600
patents



AMAT stock
listing on
NASDAQ



~34,000 employees
in **150** cities,
24 countries



Headquartered
in California's
Silicon Valley



Applied Ventures, LLC is the venture capital arm of Applied Materials, Inc. For more than a decade, Applied Ventures has invested in start-ups that are pioneering innovations in smartphones, augmented reality and virtual reality, AI, driverless cars, big data, life sciences, 3D printing, robotics, cleantech, and advanced materials. Start-ups can gain access to new materials engineering and semiconductor technology innovations and leverage our global fab infrastructure to validate high-performance devices and scale faster. We offer start-ups atomic-level engineering capabilities on 200mm/300mm silicon wafers, glass substrates and roll-to-roll substrates. **Applied Ventures is stage agnostic and invests up to \$100M per year. To date, we have provided capital to more than 90 companies in 19 countries.**

Applied Ventures Sample Portfolio



For more details on collaboration and our investment portfolio, visit <http://www.appliedventures.com>

About the Program

Applied Startup Technology & Research Accelerator (ASTRA) 2024

Applied Materials is leveraging its technical and industry expertise to accelerate the growing startup ecosystems in India and Singapore. The aim is to collaborate with deep tech startups and transform disruptive possibilities into reality. With ASTRA, Applied Materials aims to engage with the ecosystem using multiple approaches from consultation and collaboration to joint development and investment opportunities. We also connect the selected startups with our network of customers, supply chain partners, and co-investors across leading corporate and financial venture capital firms.

Startups selected for ASTRA will be assessed based on the following criteria:

- Fit to Applied technology & business
- Differentiation from existing market solutions
- High-value problems addressed
- Business model and growth potential



“ We are excited to engage with startups in India and Singapore through our annual ASTRA event and help bring their breakthrough innovations to market. In 2024, we invested in VVDN India and are looking forward to driving more investments in deep tech startups across the Materials to Systems™ stack in the region. Our broader focus areas for this year include Generative AI, Semiconductors, Sustainability, Cybersecurity, Displays, Materials, Advanced Manufacturing and Supply Chain. ”

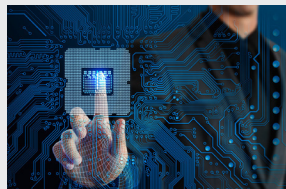
**Anand Kamannavar, Global Head, Applied Ventures, LLC,
and sponsor of ASTRA**

Focus Areas for ASTRA 2024

We are looking to engage with startups that have products, platforms and solutions in these areas:



Generative AI



Semiconductor and
Display Technologies



Sustainability



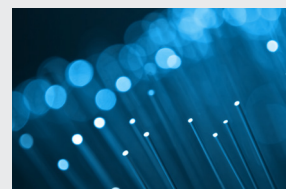
Advanced
Manufacturing



Cybersecurity and
Data Management



Quantum
Technology



Advanced Optics
and Photonics



AI Hardware



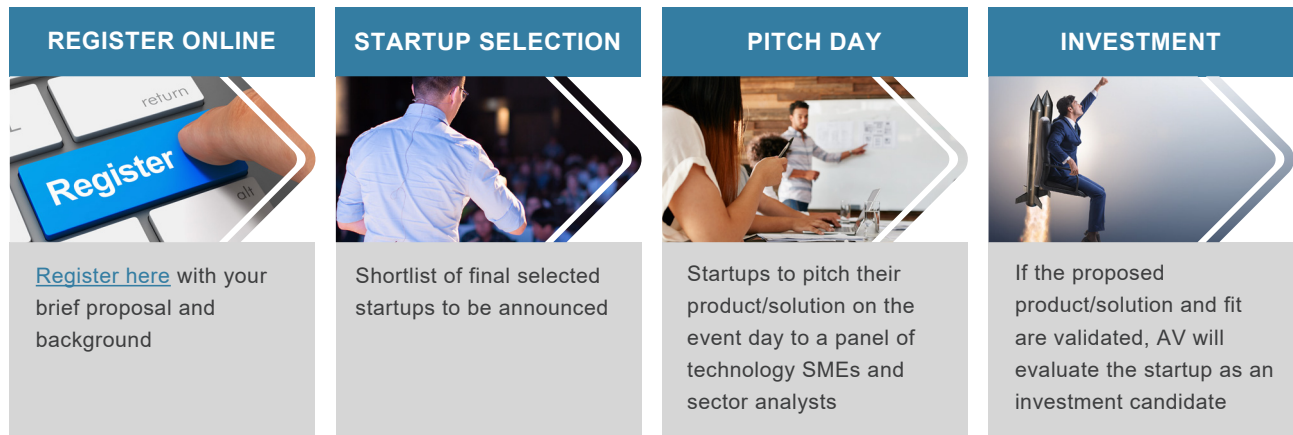
“ India and Singapore play a critical role for Applied Materials in accelerating our R&D and commercialization of new technologies to address the needs of the rapidly growing semiconductor industry. Startups will play an important role in bringing new innovations and solutions to the challenges of the industry. Applied Ventures, the corporate venture capital arm of Applied Materials, seeks to invest and partner with the deep tech startup ecosystem through the ASTRA event. ”

**Om Nalamasu, Senior Vice President, CTO Applied Materials, Inc.,
and President Applied Ventures, LLC**

ASTRA Program

The Journey

Our program provides its participants access to the best of Applied Materials – its people, network and advanced technologies.



Selection Criteria

- Available demonstration of proof-of-concept or available within 3 months
- Ongoing engagement with customer/s or potential customers is an advantage but not mandatory
- IP portfolio and/or Freedom to Operate is an advantage
- The product/solution must align with Applied Materials' interest in semiconductor and display technologies, optical/photonics, software (GAI, cybersecurity, data management), advanced manufacturing/supply chain, quantum technology and sustainability.

To Apply

- Applications for ASTRA 2024 are now open. Fill out the application form [HERE](#)
- In your executive summary, please include: biographical information of key management, description of the product and/or service, explanation of your market, competition and differentiation, funding history and business plan.

For any queries, reach out to Sankalp_Patil@amat.com

DATES TO REMEMBER:

- | | | |
|--|---|------------------------------------|
| ● Last date to submit application | : | 20th September, 2024 |
| ● Announcement of shortlisted startups | : | 27th September, 2024 |
| ● Pitch Day | : | 23rd October, 2024 |
| ● Venue | : | KTPO, Whitefield, Bengaluru |

Please note:

Once we receive the information, it can take 2-4 weeks for the initial review process. Please try to submit detailed information as part of your application. Upon completion of the initial review, you will either be asked to submit any required additional information or informed of our decision. Please do not disclose any confidential information to us.

By submitting the form, you agree and represent to us that any information or data that you provide to us ('Information') is considered non-confidential and non-proprietary to you or any other party, and Applied Materials has no obligation towards you or any other party to protect such information. Any information you transmit shall be considered non-confidential and non-proprietary information regardless if marked 'Confidential' or 'Proprietary'. Applied Materials will have no obligation of any kind with respect to such information. By communicating with Applied Materials, you acknowledge and agree to the foregoing terms.

If, after consideration of your non-proprietary disclosure, we wish to have further discussions, we may wish to enter into a confidentiality agreement with you.