

Director – Semiconductor

School of Manufacturing Design & AI

Location: Ahmedabad, Gujarat

How to Apply

Submit your resume to: dhara.shah@namtech.ac

About the Role

NAMTECH invites applications from academic leaders, HAG/HAG+ Professors, senior researchers, and accomplished semiconductor technology professionals.

The incumbent will build NAMTECH's semiconductor education, research, innovation, and industry ecosystem from the ground up, providing strategic academic, research, industry, and institutional leadership.

What you will shape

- Vision and academic architecture
- Curriculum and faculty
- Laboratories and research agenda
- Funding strategy and industry partnerships

The role suits a leader who combines academic excellence with institution-building, large-scale funding mobilisation, industry engagement, and technology development, in line with India's fast-growing semiconductor ecosystem.

Key Responsibilities

1. Academic & Institutional Leadership

- Lead the growth of NAMTECH's Semiconductor vertical and define its academic vision and long-term roadmap.
- Design, launch, and continuously enhance semiconductor-focused programs.
- Benchmark academic standards against leading global universities and industry practice.
- Mentor faculty and future academic leaders; build a culture of excellence, innovation, interdisciplinarity, and industry relevance.

2. Curriculum & Program Development

Lead curriculum development across the following areas:

Cluster	Focus areas
Devices & Materials	Device Physics & Engineering; Semiconductor & Advanced Materials; Compound & Wide-Bandgap Semiconductors; Power Semiconductor Technologies
Design	Microelectronics & VLSI; IC Design, Verification & EDA; Digital, Analog & Mixed-Signal Design
Fabrication & Process	Manufacturing & Process Technology; Wafer Fabrication & Process Integration; Lithography, Deposition, Etching & CMP; Yield Engineering, Metrology & Process Control
Packaging & Test	Advanced Semiconductor Packaging; Assembly, Testing & Reliability
Systems & Equipment	MEMS & Sensors; Equipment & Automation; Manufacturing Systems

Cluster	Focus areas
AI & Management	AI/ML for Semiconductor Design & Manufacturing; Supply Chain & Technology Management

3. Research, Innovation & Technology Development

- Set a high-impact, industry-relevant research agenda across semiconductor engineering, electronics, materials, manufacturing, AI, and automation.
- Build industry-sponsored and government-funded research programs.
- Promote publications, patents, prototypes, and technology transfer.
- Establish national and international collaborations.
- Translate research into demonstrators and deployable technologies.

4. Funding, Grants & Ecosystem Development

A critical responsibility: mobilising significant external funding and strategic investment.

- Develop and execute a long-term funding strategy for education, research, laboratories, and innovation.
- Secure government grants, sponsored research, industry funding, CSR support, strategic partnerships, and international funding.
- Pursue national semiconductor, electronics, advanced manufacturing, and innovation programmes.
- Build relationships with government agencies, semiconductor companies, research institutions, investors, and foundations.
- Lead large multi-institutional and industry-sponsored programmes.
- Create a sustainable funding ecosystem for faculty research, laboratories, student projects, and technology translation.

5. Industry Engagement

- Partner with fabs, fabless companies, OSAT/ATMP organisations, EDA companies, equipment makers, and electronics firms.
- Develop sponsored projects, internships, apprenticeships, live projects, executive education, and joint research.
- Establish and lead an industry advisory board.
- Represent NAMTECH at national and international semiconductor forums.

6. Faculty & Talent Development

- Build a world-class, interdisciplinary faculty and technical team.
- Attract distinguished professors, researchers, industry experts, and Professors of Practice.
- Strengthen faculty research and industry engagement; create pathways for collaboration with leading companies and institutions.

7. Laboratory & Infrastructure Development

- Lead the setup of state-of-the-art semiconductor laboratories and technology infrastructure.

- Define requirements for VLSI, electronics, processing, materials, packaging, testing, simulation, and manufacturing labs.
- Guide technology selection, equipment planning, and laboratory utilisation.
- Create industry-grade experiential learning environments aligned with emerging technologies.

8. Student & Industry Outcomes

- Develop industry-embedded and experiential education models.
- Build pathways for internships, apprenticeships, industry projects, and placements.
- Develop talent across design, fabrication, packaging, testing, equipment, manufacturing, and technology management.
- Involve industry in student learning and assessment; track employability, research, and innovation outcomes.

Eligibility & Experience

Position	Qualification	Experience
Program Director / Director	Ph.D. in a relevant discipline, or equivalent professional/technology experience	Minimum 20 years of teaching, research and/or industry experience, including substantial senior leadership; typically 5+ years at Professor or equivalent level

Preferred Profile

- Distinguished Professor / HAG / HAG+ or equivalent senior academic leadership profile.
- Strong credentials in semiconductor, microelectronics, VLSI, electronics, electrical engineering, materials, or related fields.
- Experience as Dean, Head of Department, Director of Centre, or Institute/Program Head (highly desirable).
- Strong record of publications, patents, sponsored research, technology development, or industry projects.
- Demonstrated success in securing substantial government, industry, institutional, or international funding (strongly preferred).
- Experience establishing academic programs, research centres, laboratories, or technology initiatives.
- Strong industry and international academic collaborations.
- Ability to attract and build high-quality faculty and research teams.
- Strong understanding of the Indian and global semiconductor ecosystem.
- Excellence in academic leadership, stakeholder management, mentoring, fundraising, and institution-building.

Leadership Expectations

The successful candidate will:

- Build the Semiconductor academic, research, funding, and industry vision from the ground up.
- Mobilise significant external funding and strategic investment to establish and scale the ecosystem.
- Establish a globally benchmarked curriculum.
- Build a high-calibre faculty and research ecosystem.
- Develop strategic partnerships with leading semiconductor organisations.
- Establish advanced laboratories and experiential-learning infrastructure.
- Create large-scale industry-sponsored and government-funded R&D programs.
- Build national and international academic and industry collaborations.
- Develop a strong talent pipeline across design, manufacturing, packaging, testing, equipment, and technology management.
- Position NAMTECH as a leading industry-led institution for semiconductor talent, research, and innovation.

What Makes This Opportunity Distinctive

This is not about leading an existing program. It is about building a semiconductor ecosystem from the ground up, bringing together:

Education | Research | Large-Scale Funding | Industry Partnerships | Advanced Laboratories | Technology Development | Innovation | Talent Creation

- A platform to shape a new-generation semiconductor institution at a critical stage of India's semiconductor growth.
- The autonomy to establish nationally and internationally significant academic, research, and industry initiatives.
- NAMTECH is an industry-led technology institution with an international academic orientation and strong ties to global and national technology ecosystems.

Why NAMTECH

Move beyond managing an established academic unit and create an institution-building platform in one of India's most strategically important technology sectors. You will shape:

- A new semiconductor academic ecosystem
- Advanced laboratories and experiential-learning infrastructure
- Large-scale sponsored and government-funded research
- Industry and international partnerships
- Faculty and research talent
- Semiconductor technology and innovation programs
- The next generation of semiconductor professionals and technology leaders

If you bring academic stature, technology expertise, an industry network, and a record of mobilising funding and building high-impact institutions, NAMTECH offers the chance to create something enduring in India's semiconductor ecosystem.

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