



UNIVERSITY OF NORTH TEXAS

Graduate Programs in Semiconductor Manufacturing Engineering

Master of Science (M.S.)

- Semiconductor Manufacturing

Graduate Certificate

- Semiconductor Manufacturing

A degree to fit your needs

Are you a **recent graduate** of a science, engineering, or computer science bachelor's program?

Narrow your academic focus to an in-demand job market.

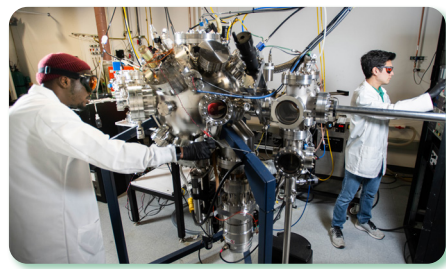
Are you a **working professional** who wants to advance your career or pivot into a new discipline?

Gain knowledge in a desirable, vital, and growing field.

12 Month Track Available


20+ Fortune 500 Companies in DFW

State of the Art Research Facilities



MEET OUR FACULTY

Dr. Sundeep Mukherjee
Professor of Materials Science & Engineering




Professional Highlights

- 6 years Industry Experience with Intel Corporation
- Editor, Entropy, MDPI
- Editorial Board Member, Scientific Reports, Springer Nature
- 2022 Faculty Teaching Award

Explore all our faculty!
engineering.unt.edu/people

Dr. Usha Philipose
Professor of Physics



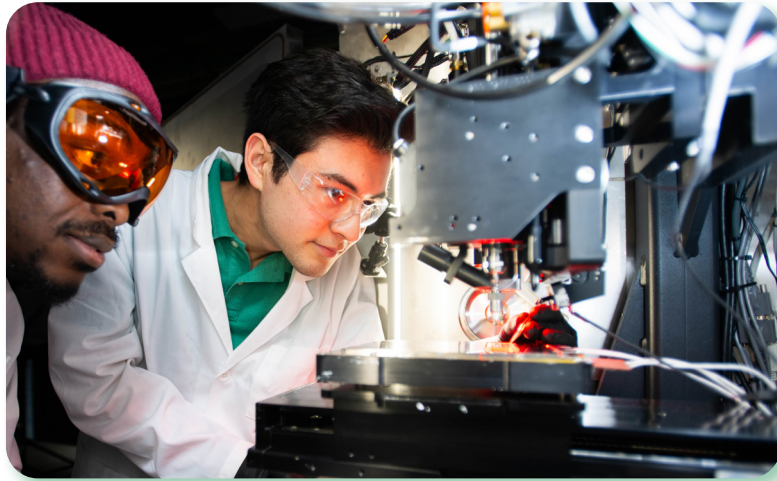
Research Areas

- Synthesis of semiconductors with engineered properties

Goals
Engineer the photon, phonon and electron attributes in different dimensions to modify the material's electrical, thermal, and optical properties.

Marketable Skills

- semiconductor device fabrication
- packaging
- testing
- characterization
- materials properties
- problem solving
- data analysis
- oral and written communications



Program Descriptions

M.S. Program

Focus your Master's degree in Semiconductor Manufacturing at the University of North Texas. This 34-credit hour program offers core courses to build students' foundational knowledge in semiconductors, laboratory and research-based courses to build their practical skills and a variety of electives to fit your interests. Gain access to the world-class facilities and cutting-edge technologies that prepare you to pursue a career in the rapidly evolving semiconductor industry. Our interdisciplinary program incorporates knowledge from materials science, electrical engineering, mechanical engineering, physics, and chemistry and provides students with a solid understanding of semiconductor technology and its applications, including circuit fabrication, packaging, and properties of electrical and optical materials.

G.A.C. Program

Invest in your career; by completing 9 credit hours of coursework, you can build a foundational knowledge in semiconductors. Choose three of the qualifying courses that best fit your path to ensure your future success.



Need to Know

Applicants without a Bachelor's in Computer Science, Engineering, or the Sciences will be required to take leveling course based upon their experience.

Financial Assistance Available

- UNT and College of Engineering Scholarships
Fall application deadline March 1
- CMEE MS Graduate Scholarship
Stipend, in-state tuition, and possible tuition & fee support

Application Checklist

- Official Transcript
- Resume

International Applicants

- TOEFL, IELTS, or Duolingo Scores



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STUDENT TESTIMONIALS

"I chose the Master's in Semiconductor Manufacturing Engineering because I saw it as a rare and valuable opportunity to gain expertise in a highly specialized and impactful field. While I'm still exploring exactly where I want my career to lead, I've found that I greatly enjoy the hands-on lab work and problem solving the program emphasizes. I believe this degree prepares me well by giving me the technical foundation and practical experience to quickly adapt, not only in the semiconductor industry but in any field that demands the ability to understand and work through complex subjects. My hope is that it will allow me to step into related roles with the confidence to understand and contribute meaningfully, rather than just observing from the outside like I have done to this point."

"I am pursuing a Master's degree in Semiconductor Manufacturing Engineering because I have a genuine passion for staying updated on the latest advancements in gaming hardware and a desire to deepen my understanding of how these technologies are designed and constructed. As I continue my journey toward obtaining a doctorate, I'm excited to apply my expertise in semiconductor manufacturing to contribute to research in the field of nuclear physics. By bridging these areas, I can make a meaningful impact."

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