

Materials Science, Engineering and Commercialization

DOCTOR OF PHILOSOPHY

Department Mission

The materials science, engineering and commercialization Ph.D. program at Texas State is an integrated effort leveraging opportunities in the university's biology, chemistry and biochemistry, physics, engineering, engineering technology and business school programs.

The MSEC program's goal is to train graduate scientists and engineers to perform interdisciplinary research while equipping them to emerge as effective entrepreneurial leaders in the advancement of 21st-century global discovery and innovation.

MSEC Ph.D. students conduct research in state-of-the-art facilities with exceptionally qualified faculty. Their research attracts significant external funding and is producing innovative commercial endeavors in civilian, defense and security applications.



msec.txstate.edu

Texas State University's materials science, engineering and commercialization doctoral program provided me with a core understanding of the fundamentals of business and finance as they relate to the science and application of materials in an industrial setting.

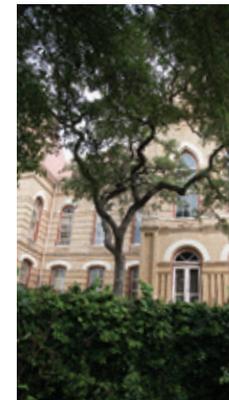
– Dr. Marcus Goss, Chief Operating Officer,
SioTex Corporation

Materials Science, Engineering and Commercialization Program

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Texas State University has made materials science and engineering research, education and commercialization a priority.

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Why choose Texas State?

With a focus on applied research, industrial outreach and entrepreneurial training, Texas State is uniquely positioned in the region to offer this combination of skills, providing education with relevance with the materials science, engineering and commercialization (MSEC) degree. Students gain valuable experience that prepares them for real-world success.

Current MSEC students are recognized with scholarships and fellowships and in research and entrepreneurial competitions. Graduates have been very successful in pursuing industrial positions and in building their own companies.

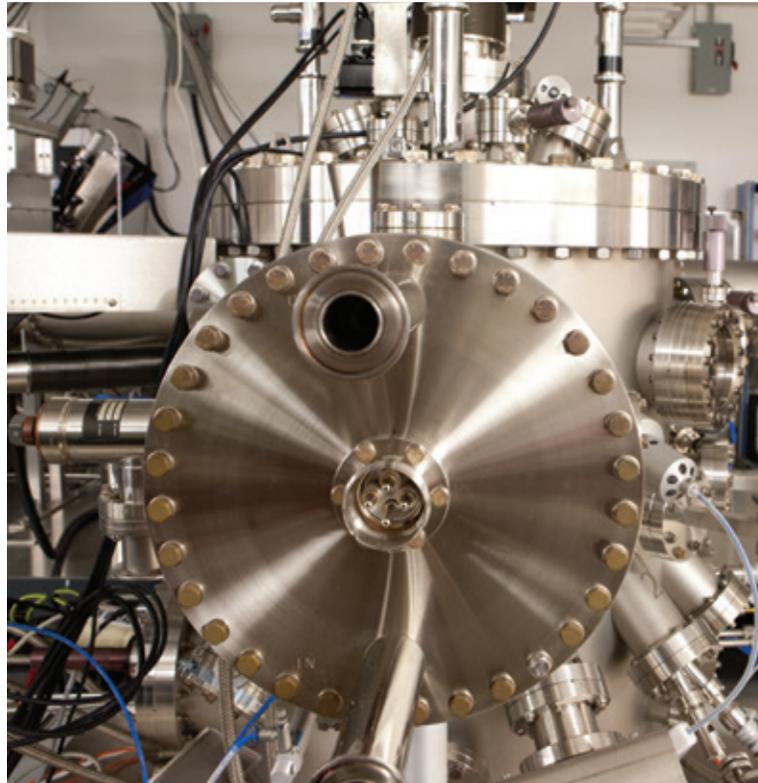
Course Work

The 55-credit doctor of philosophy (Ph.D.) program promotes the translation of innovations from the lab to commercial production and provides the skills to organize and lead interdisciplinary research teams. In addition to providing a strong science and engineering background, the curriculum imparts the business and commercialization skills necessary for effective leadership in the advancement of global discovery and innovation.

Students augment their science and engineering studies with commercialization activities such as technology internships, interdisciplinary boot camps, entrepreneurial course work and forums. With a small amount of additional course work, students can also obtain a master's in business administration while working on their doctorate.

Faculty

Students in the MSEC program study with nationally funded and internationally known researchers utilizing unique state-of-the-art facilities. Many faculty members have been managers at large or small technology companies or in defense laboratories, and most have industrial and commercialization experience. Students will learn from those who have been successful at technical innovation — practitioners of the art of technology development and commercialization.



Career Options

While some MSEC graduates have continued to post-doctoral fellowships in academia, most graduates predominantly move to private sector science and technology positions. Several have started their own businesses based on technology they developed while studying at Texas State.

Important Deadlines*

Admissions

Priority Fall: February 1

Fall: June 15

Spring: No admission

Summer: No admission

Funding: Scholarships, Fellowships and Assistantships

Applications must be complete by the priority deadline to be considered for funding.

How to Apply

For information regarding admission requirements and submission instructions, please visit: gradcollege.txstate.edu/apply

*International applicants can view specific deadlines and requirements at: gradcollege.txstate.edu/international

For information on deadlines, admission requirements and funding, visit: gradcollege.txstate.edu/programs/msec-phd