Data Engineering, M.S.

Top 5 Things to Know about Us

1. Our program prepares students for jobs as data engineers, a rapidly growing field in which recent reports estimate that companies now typically need a minimum of 2-3 data engineers for every data scientist.

2. Our program is based in computer science and designed specifically with STEM students in mind.

3. Students learn skills to develop software and manage hardware to efficiently collect, store, and process data in large-scale SQL and NoSQL database environments.

4. Students take a combination of core courses, an analytics course, and concentration courses that include topics like big data and data science, data visualization, database systems, machine learning, and data mining.

5. The program is designed to meet the needs of industry, so graduates will be able to not only solve complex data problems but also communicate and collaborate within a team environment.

Jobs in data engineering
growing by 50%
making it the fastest growing job in technology in 2019
according to Dice 2020 Tech Job Report

UNT is a **Tier One** research university located in Denton, TX.

Faculty Spotlight

Students interested in data engineering will have the opportunity to work alongside faculty like Dr. Yan Huang in the Department of Computer Science and Engineering.

Her research focuses on spatio-temporal databases and mining, geo-stream data processing, smart transportation, and location-based social networks.
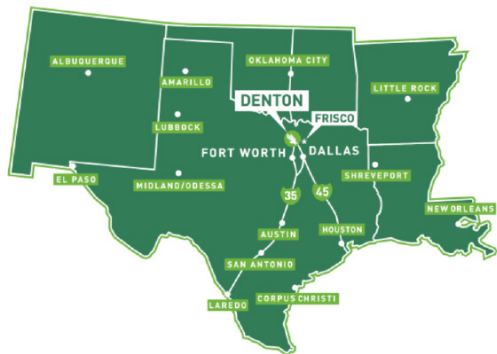
UNT
COLLEGE OF ENGINEERING

Our Program

The University of North Texas College of Engineering offers coursework leading to a Master of Science in Data Engineering. The program requires 33 hours.

- Concentrations: Biomedical Engineering and General Data Engineering

- Students take 15 hours of core courses, 3 hours of predictive analytics, and 15 hours in their chosen concentration

Our Location

UNT is located in Denton, TX, a college town that is part of the Dallas-Fort Worth metropolitan area. DFW is the country's fourth-largest metropolitan area and offers a wealth of job opportunities as well as entertainment, culture, and more.

Contact Us

dataengineering@unt.edu | (940) 565-4300
engineering.unt.edu/msde

Admission

Our program is open to high-achieving students from engineering, computer science, math, and science-related backgrounds. Each applicant's transcripts will be reviewed to determine if their background is suitable for admission into the concentration of their choice and/or if leveling coursework is required. Applicants for this program should:

- Have a minimum 3.0 cumulative GPA in previous coursework.

- Have taken statistics or linear algebra and have prior programming experience using languages like C++, Java, Matlab, Python, or R.

- Submit transcripts and GRE scores. GRE may be waived for students who graduated from an ABET-accredited degree program or have a GPA of 3.3 or higher.

- International applicants should submit TOEFL or IELTS scores.

- Submit a resumé (optional).

Apply by January 15th to be considered for all funding.

Funding Opportunities

Teaching and research assistantships provide support for many graduate students. In addition to a monthly stipend, assistantships also qualify students for in-state tuition rates, and many students receive tuition and fee support.

Scholarships are available to graduate students as well. The general scholarship deadline is March 1 of each year. The College of Engineering also offers scholarships to qualified students throughout the year.