



# Take the next steps **FOR YOUR SUCCESS**

## Visit the UNT campus

[engineerthefuture.unt.edu](http://engineerthefuture.unt.edu) or 940-565-4104

Join us for a student-led tour of UNT's main campus and Discovery Park.

## Apply for admission

[engineerthefuture.unt.edu/admissions](http://engineerthefuture.unt.edu/admissions)

For more information on the UNT College of Engineering: 940-565-4300

## About UNT

Established in 1890, UNT is one of the nation's largest public research universities with 37,000 students. As a catalyst for creativity, UNT fuels progress, innovation and entrepreneurship for the North Texas region and the state. Our programs are internationally recognized with research and scholarship spanning all disciplines. We offer 100 bachelor's, 83 master's and 37 doctoral degree programs.

 Join us on Facebook!  
[facebook.com/northtexas](https://facebook.com/northtexas)

The University of North Texas System is firmly committed to equal opportunity and does not permit - and takes actions to prevent - discrimination, harassment (including sexual violence) and retaliation on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity or expression, age, disability, family status, genetic information, citizenship or veteran status in its application and admission processes, educational programs and activities, facilities and employment practices. The University of North Texas System immediately investigates and takes remedial action when appropriate. The University of North Texas System also takes actions to prevent retaliation against individuals who oppose a discriminatory practice, file a charge, or testify, assist or participate in an investigative proceeding or hearing. Direct questions or concerns to the equal opportunity office, 940-565-2759, or the dean of students, 940-565-2648. TTY access is available at 940-369-8652. AA/EOE/ADA

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Cover photo: UNT engineering students practice flying a drone at Clear Creek Natural Heritage Center in Denton.

 COLLEGE OF  
ENGINEERING

**UNT**®

COLLEGE *OF*  
**ENGINEERING**

[engineerthefuture.unt.edu](http://engineerthefuture.unt.edu)



**UNT**  
EST. 1890

# MAKING A REAL WORLD IMPACT



At the University of North Texas, our student-focused philosophy, world class faculty and exceptional research facilities will give you the freedom to pursue your goals and achieve them. With state-of-the-art labs and equipment housed in our 300-acre Discovery Park, UNT's College of Engineering offers you a unique environment to learn, conduct research and connect with your peers and faculty mentors.

The College of Engineering offers 10 bachelor's, seven master's and four doctoral degree programs that will provide you with hands-on, project-based study that will prepare you to make a difference in the real world.

**You can make an impact at the UNT College of Engineering.**



Discovery Park is home to UNT's College of Engineering students. The 300-acre facility houses labs, classrooms, study spaces and advising offices.

## UNT's COLLEGE OF ENGINEERING OFFERS



- An opportunity to make the world a better, more energy efficient place by studying in the Department of Mechanical and Energy Engineering, the first department of its kind in the nation.
- An active network of 21 engineering student organizations.
- Access to research grant funding.
- A remarkable legacy. UNT's Department of Computer Science and Engineering is one of the oldest in the country, celebrating more than 40 years of excellence.
- Extraordinary facilities such as the Zero Energy Laboratory, the Computational Epidemiology Research Laboratory and the Laboratory for Recreational Computing.



**“WHAT I LOVE ABOUT UNT IS THAT IT FEELS LIKE HOME. ENGINEERING PROFESSORS ARE EASY TO TALK TO AND WILLING TO HELP, AND YOU CAN GET INVOLVED IN RESEARCH PROJECTS. ALSO, THE MACHINERY AND TECHNOLOGY AT DISCOVERY PARK IS FASCINATING.”**

**NONSO CHETUYA**  
Materials Science and Engineering student

## One-on-One Tutoring

Engineering students have access to free one-on-one tutoring with no appointments necessary at Discovery Park for subjects including math, physics, chemistry, biology and engineering. Tutoring helps you succeed in your foundation and higher-level engineering classes.

## Research

Engineering students can conduct hands-on research in UNT laboratories and explore cutting edge topics in renewable energy, drones, cybersecurity, gaming, computer epidemiology, robotics, sensor networks, 3D printing and lightweight structures.

## Professional Development

You can earn leadership experience by participating in student organizations that compete in challenging engineering competitions around the world. The college helps students by providing travel funds and facilitating support from corporate sponsors interested in helping you succeed.

## Internships and Jobs

Employers prefer to hire graduates with hands-on experience. The college has extensive relationships with industry partners that open doors for internships and full time employment after graduation. Each semester, the engineering career fair gives students and alumni an opportunity to interview with more than 90 companies, including Burlington Northern Santa Fe, L-3 Communications, Lockheed-Martin, PepsiCo and more.





# ENSURING YOUR SUCCESS

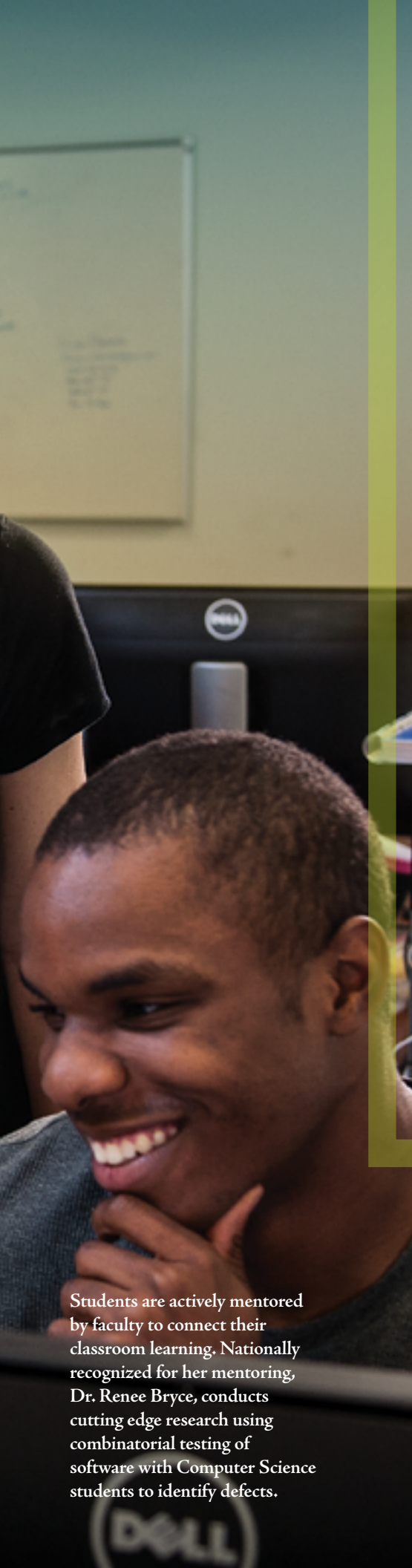


UNT's College of Engineering provides an extensive support system that helps students explore their interests and achieve their dreams.



# COMMITTED, CARING FACULTY

College of Engineering faculty are advancing the frontiers of knowledge and improving quality of life through their research. Highly esteemed in their fields, our professors are approachable as teachers and mentors.



You'll have an opportunity to conduct research alongside our renowned faculty including:

### **Dr. Armin Mikler**

Dr. Mikler leads UNT's Computational Epidemiology Research Laboratory, a multidisciplinary research center focused on disease outbreak modeling, visualization of complex data, geospatial analysis and crisis response plan design. Dr. Mikler has received funding from the National Institutes of Health and the National Science Foundation to develop a computer-based system to help emergency planners identify vulnerable populations, construct or modify response plans, and allocate health care resources to combat epidemics.

### **Dr. Nandika D'Souza**

Dr. D'Souza and her research team focus on materials manufacturing and design of products that perform reliably and predictably during service life. The team focuses on adhesives, corrosion resistance, lightweight structures, foams and gels for biomedical, aerospace, construction and environmental applications.

### **Dr. Yan Wan**

Dr. Wan conducts research on cyber-physical systems. She and her colleague have created drones that provide Wi-Fi signals and can help restore communication for first responders and victims after disasters. The team was invited to present the work at the White House. Dr. Wan also is a recipient of the National Science Foundation's CAREER award, the Foundation's most prestigious award supporting junior faculty, and the Tech Titan Award.

### **Dr. Rajiv Mishra**

Dr. Rajiv Mishra, Distinguished Research Professor of materials science and engineering, is an expert in the development of alloy microstructures and the processing of materials properties. He is considered a world leader in friction stir welding and processing, a method of joining solid-state metals without melting the metals. Mishra is the Director of UNT's Advanced Materials and Manufacturing Processes Institute and a National Science Foundation-funded Industry-University Cooperative Research Center for Friction Stir Processing.

Students are actively mentored by faculty to connect their classroom learning. Nationally recognized for her mentoring, Dr. Renee Bryce, conducts cutting edge research using combinatorial testing of software with Computer Science students to identify defects.

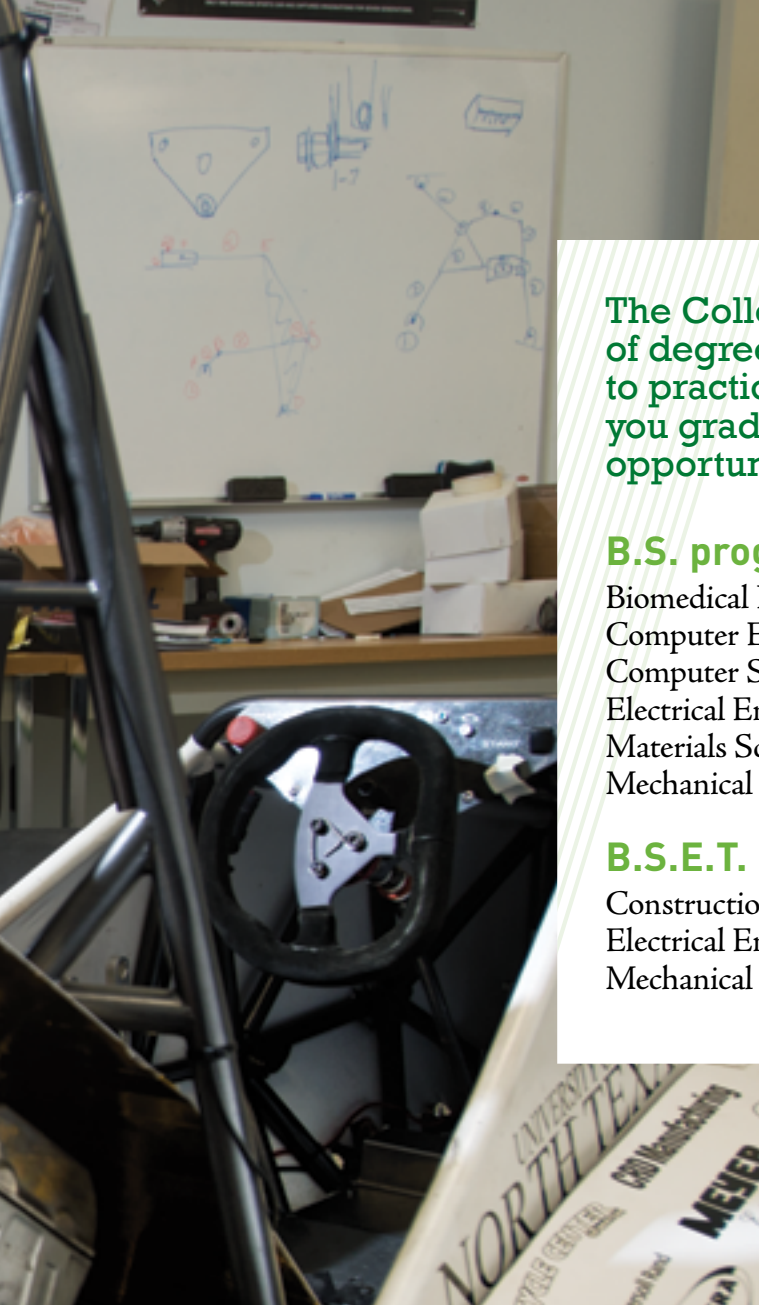






# BACHELOR'S DEGREE PROGRAMS

Students in UNT's Society of Automotive Engineers build a Formula SAE series race car from scratch each year and race in national competitions.



The College of Engineering offers you a variety of degree options in disciplines from theoretical to practical. You'll get hands-on experience before you graduate, with valuable access to research opportunities in your field.

**B.S. programs:**

- Biomedical Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Materials Science and Engineering
- Mechanical and Energy Engineering

**B.A. program:**

- Information Technology

**B.S.E.T. programs:**

- Construction Engineering Technology
- Electrical Engineering Technology
- Mechanical Engineering Technology

“BEING INVOLVED IN STUDENT ORGANIZATIONS HAS BEEN INCREDIBLE FOR MY DEVELOPMENT AS A PROFESSIONAL AND AN ENGINEER. I HAVE TRAVELED TO NATIONAL CONFERENCES WHERE I HAVE DONE JOB INTERVIEWS ON THE SPOT, AND HAVE FOUND A NETWORK OF PROFESSIONALS WHO MAKE SURE I HAVE MENTORS AND OPPORTUNITIES.”

HALEY BARNES  
Materials Science and Engineering student



UNT engineering students are preparing to solve many of today's problems through hands-on learning in labs. Students work with some of the most modern equipment in the nation.



# GRADUATE DEGREE PROGRAMS



Graduate students at UNT work alongside multidisciplinary faculty researchers who are pioneering ideas that will benefit the global community. Researchers are using cutting edge technologies, including 3D printing and computational systems, to address challenges in healthcare, infrastructure, security, energy and the environment.



### **M.S. programs:**

Biomedical Engineering  
Computer Engineering  
Computer Science  
Electrical Engineering  
Engineering Technology  
Materials Science and Engineering  
Mechanical and Energy Engineering

### **Ph.D. programs:**

Computer Science and Engineering  
Electrical Engineering  
Materials Science and Engineering  
Mechanical and Energy Engineering



**“WHEN I FIRST CAME TO UNT, I DIDN’T KNOW WHICH ENGINEERING FIELD I WANTED TO STUDY. MEETING UNT PROFESSORS AND DOING HANDS-ON RESEARCH IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE HELPED ME DETERMINE WHAT I WANT TO DO WITH THE REST OF MY CAREER.”**

**NATALIE PARDE**  
Computer Science and Engineering Ph.D. student

# PAYING FOR COLLEGE

UNT provides a traditional college experience and the quality of a private university at an affordable cost. We've been named one of America's 100 Best College Buys® for 20 consecutive years, a ranking based on having a high-achieving freshman class and affordable tuition.

## Above the rest for thousands less

UNT's popular Eagle Express Tuition Plan lets you lock in your academic costs for four years, earn your bachelor's degree sooner and save up to \$3,000 when you graduate in four years. No other Texas university offers a more innovative solution to rising college costs.

## By the numbers

About 75 percent of UNT students receive financial aid and scholarships totaling \$330 million annually. This includes more than \$39 million in scholarships. To receive first consideration, submit the FAFSA (Free Application for Federal Student Aid) before UNT's Feb. 1 financial aid priority deadline. The application deadline for scholarships is March 1.

## Types of assistance:

**Scholarships** – funds awarded based on merit and/or need; no repayment required

**Grants** – funds awarded based on need; no repayment required

**Loans** – funds that must be repaid at some point

**Student employment** – 3,500 jobs on campus and 8,500 off campus







# FINDING SUCCESS WITH YOUR DEGREE

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UNT is located in Denton, a city of 123,000 people 40 miles north of Dallas-Fort Worth, one of the nation's largest metropolitan areas.

The region has the country's second highest concentration of Fortune 500 companies. CNN Money ranked Denton County among the nation's Top 10 best places to live for job potential.

Business representatives recruit at UNT, interview students, attend career fairs and speak to classes. Among the 1,000 companies that visit are: AT&T, Bell Helicopter, Ericsson, Luminant, Schlumberger, Texas Instruments and Weber/Zodiac.

When you graduate from the College of Engineering, you'll have the hands-on experience employers need, like alumna Lettie Haynes, assistant vice president of technology services at Burlington Northern Santa Fe Railway.



## NOTABLE ALUMNI OF THE UNT COLLEGE OF ENGINEERING INCLUDE:

- ♦ Bill Benninghoff ('97), *software engineer team lead, Cisco*
- ♦ Jay Chenault ('84), *president and CEO of Custom Computer Cables of America*
- ♦ Jason Cinek ('94), *senior vice-president, TDIndustries*
- ♦ Sarah Nakaye Franey ('09), *remote support engineer, Rockwell Automation*
- ♦ Cheryl Miller ('83), *principal-technical architect, AT&T*
- ♦ Chris Pearce ('90), *distinguished engineer at Cisco Systems*
- ♦ Mohamad Sakr ('88 M.S.), *CEO of Inovas Company*
- ♦ Nergis Soylemez-Sayed ('06), *quality engineer at Conifer Health Solutions*
- ♦ Larry Sullivan ('92), *director of engineering at Microsoft*
- ♦ Elbert "Gene" Tindall ('74), *CEO of Electric Energy Corp*
- ♦ Michael Webb ('97), *chief technology officer, Smart Vault*
- ♦ Tom Weger ('89), *president and CEO of Coppell Construction*
- ♦ Jason West ('96), *founder of the Call of Duty video game franchise*

Visit [engineerthefuture.unt.edu/alumni](http://engineerthefuture.unt.edu/alumni) for more notable College of Engineering alumni.