

EDUCATING TODAY TO POWER TOMORROW.

What is Wind Energy?

Right now, the field of renewable energy has the potential for huge economic expansion. Wind energy is poised to provide 20% of the nation's electricity by 2030, which means that there will be significant growth in the number of highly skilled personnel needed to join the wind energy labor force. During the next 10 years, the U.S. wind industry could support more than 500,000 jobs, including those in associated businesses such as accountants, lawyers, steel workers, and others.

Why Study Wind at Texas Tech University?

Texas is ranked highest in the U.S. for installed wind power capacity and TTU's Lubbock campus is in the Great Plains "wind corridor" region making this part of Texas ideal for a wide variety of opportunities in wind energy.

Lubbock is also home to the Reese Technology Center (RTC), a 2,500-acre research park located eight miles from the general university campus. The National Wind Institute (NWI) occupies 56,000 feet of indoor laboratory space along with a 67-acre field site enabling faculty and students to focus on new research on both wind energy and wind-related damage mitigation.

What Makes Our Wind Energy Offerings Unique?

Since wind energy is a multidisciplinary industry, the TTU course selection (offered through NWI) strongly reflects that mission. NWI's numerous program options prepare students for professional positions in law, business, agriculture, architecture, or the wind power industries. Additionally, NWI offers courses that are on-line and/or classroom-based which are very flexible for students. Capable and friendly advisors are always prepared to help you make the best educational plan designed just for you, and we are dedicated to guiding students through their entire college career and beyond.



806-742-6284

windenergy@ttu.edu

1009 Canton Ave.,

MS 3155 Lubbock, TX 79409-3155

www.depts.ttu.edu/nwi/education/BSWE

BSWE

Bachelor of Science in Wind Energy

TEXAS TECH'S BACHELOR OF SCIENCE IN WIND ENERGY

Wind Energy is the premiere multidisciplinary program developing transformational experts who apply knowledge, skills, and conviction to lead in the advancement of sustainable renewable power solutions with positive regional, national, and global impact.

- **Community Engagement and Outreach at Local Schools**
- **85% Job Placement Rate**
- **1 of 12 Teams to Participate in the Department of Energy's National Collegiate Wind Competition**
- **Work with Non-profits to Find Power Solutions**
- **Supportive Family Atmosphere**

@TTUWind

TRAINING THE INDUSTRY ELITE.

Minor in Wind Energy

The Wind Energy Minor requires 18 credit hours of undergraduate wind energy courses, nine of which must be completed at either the Junior or Senior level. All courses must be approved by a TTU Wind Energy Advisor and completed with a grade of "C" or higher in each course.

Undergraduate Certificate in Wind Energy

Students in STEM fields interested in the wind industry, but unable to complete the wind energy minor, can elect to pursue an undergraduate certificate. The certificate consists of 10 hours of undergraduate wind courses and provides a foundation for understanding the wind industry, wind power conversion, and wind farm mapping software.

Bachelor of Science in Wind Energy

(120 Credit Hours)

The courses will be delivered both on-line and in-person on the TTU-Lubbock campus. We offer a complete multidisciplinary program in the field of wind energy that includes instruction in: design and construction, management, environment and public policy, environmental and social impacts, business and financing, research and development, atmospheric sciences, and electric grid integration, to gain a broader understanding of renewable energy with a focus on wind.



Required Global Component

(3 Credit Hours)

In today's international wind energy industry, students with an understanding of the global aspects of how wind industry companies operate are more marketable. The three credit hour Global Component of this degree helps to provide insight into this multicultural nature of the wind energy field. There are two ways to fulfill this requirement:

- Complete an approved internship in the wind energy field either in the U.S. or abroad with an international company. The internship requires a minimum of 200 hours of documented job-related experience and a written report.
- Complete an approved wind energy (or related) Study Abroad program with an approved TTU campus in Spain or Germany, another approved affiliate and reciprocal exchange program, or a Texas Tech faculty led program.

WINDENERGY@TTU.EDU

