Wind Energy Educational Opportunities

Based on more than 45 years of research, the National Wind Institute (NWI) represents the nation’s leading wind-focused research and education enterprise. The vision of the NWI is to stimulate discovery and innovation, provide and implement solutions to wind-related problems, establish multi-dimensional partnerships, and educate the next generation of wind workforce and researchers. Formerly the Wind Science and Engineering (WiSE) Research Center, NWI delivers and manages a wide suite of undergraduate and graduate degree programs, including professional development activities and online courses.

Programs
NWI created the first doctoral program in wind science and engineering in the U.S. and offers the only Bachelor of Science degree program in wind energy. Additionally, courses are offered leading to a graduate certificate in wind energy.

The educational objectives of the program are to provide graduates with the broad education necessary to pursue studies and to solve problems related to the detrimental effects of windstorms (hurricanes, tornadoes, thunderstorms and others), and to take advantage of the wind’s beneficial effects (wind power, natural ventilation, pollution dispersion etc.).

Ph.D. program – wind science and engineering
NWI doctoral program students travel from all over the world to learn from our faculty and have diverse backgrounds to meet the intellectual goals demanded by the program. Our graduates are recruited worldwide to work in both private and public settings in a wide variety of fields. Recent research topics have included subjects from wind-wave interaction to wind power system reliability, to hurricane risk and evacuation.

Graduate Certificate
Professionals interested in wind energy can complete 15 hours of coursework for a managerial or technical graduate certification. Topics include: energy law, economics, project management, power electronics, and renewable energy industry developments.

Bachelor of Science in wind energy
If the U.S. is to meet its federal goal of 20 percent wind power by 2030, the nation needs forward-thinking individuals to overcome the obstacles facing today’s wind power industry. By educating students to link disparate fields and paradigms together through our multidisciplinary and transdisciplinary program, these challenges can be addressed.

The 120 credit hour Bachelor of Science in Wind Energy program, created in 2011, currently has more than 180 undergraduate majors with six wind energy program instructors. It is tailored to undergraduate students who are prepared to work in industry or pursue higher education degrees in the electric energy sector, with an emphasis on renewable energy and a focus on wind energy.

For All Things Wind, consider the National Wind Institute at Texas Tech University.