



# Doctor of Engineering in Engineering



**PennState**  
World Campus

**A world of possibilities.  
Online.**

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“The D.Eng. program is designed for practitioners to advance their careers without putting them on hold. Their praxis research will focus on the highly interdisciplinary applied research that drives innovation in today’s complex, globalized world. Those who earn their D.Eng. from Penn State will be positioned to lead their organizations into the future.”

**—Dr. Sven G. Bilén, Ph.D., P.E.**  
**Program Director, D.Eng. in Engineering**





## Earn a Penn State Doctor of Engineering in Engineering Online

Penn State, long respected and consistently recognized for having one of the top engineering programs in the country, is proud to offer a Doctor of Engineering in Engineering (D.Eng.) online through Penn State World Campus. This program incorporates the rigor of an engineering Ph.D., but shifts the focus of career progression from academic research and teaching to the practical implementation of engineering research and leadership in an industrial or commercial setting.

This program has been built from the ground up to help seasoned professionals prepare for top-level engineering management roles in industry, military, organizational, or governmental settings. Students in the program will benefit from a strong focus on research while developing leadership potential valued in both the public and private sectors.

To be considered for admission to the program, students should hold a

master's degree in engineering or a research-related field such as physics, math, or the sciences. The most qualified candidates for the program will also have several years of experience working in the engineering field.

The program offers an extensive selection of electives, allowing for a great deal of customized learning that can reflect students' previous experience and desired career advancement. A 15-credit praxis project that connects the engineering research directly to the student's current profession and organization serves as a culminating experience.

Successful graduates of the program will be well-prepared to direct high-performing research divisions or companies, demonstrating a deep understanding of advanced engineering as well as high-level leadership capabilities valued across all industries.



# Curriculum and Residency

Penn State's 45-credit online Doctor of Engineering in Engineering program requires you to spend five total days on campus. Major program milestones include a qualifying exam, comprehensive exam, and praxis defense.

To graduate from the program, you must successfully complete 9 credits from the following courses:

- › ENGR 501: Engineering Leadership for Corporate Innovation (3 credits) *(required)*
- › ENGR 804: Engineering Product Innovation (3 credits) *(required)*
- › ENGR 405: Project Management for Professionals (3 credits)
- › ENGR 802: Engineering Across Cultures and Nations (3 credits)

You will also be required to complete 6 credits of statistics and research courses, including ENGR 820: Applied Engineering Research Methods (3 credits) and your choice of:

- › STAT 500: Applied Statistics (3 credits)
- › STAT 501: Regression Methods (3 credits)
- › STAT 505: Applied Multivariate Statistical Analysis (3 credits)
- › STAT 510: Applied Time Series Analysis (3 credits)
- › Numerical methods/analysis course relevant to proposed praxis research topic

You can customize your learning by selecting 15 credits from a comprehensive list of technical electives from a wide variety of disciplines.

The program culminates with a 15-credit praxis research project focused on applied research executed in a real-world industry environment. You will identify an industry problem and use applied research methods to develop and present a proposed solution.

For more detailed information on courses and praxis/residency requirements, please visit: [worldcampus.psu.edu/DEng](https://worldcampus.psu.edu/DEng)



# Why Penn State World Campus?

Penn State World Campus is an industry leader in online education, delivering more than 175 undergraduate and graduate degree and certificate programs to adult learners. Our mission is to provide the Penn State education experience to anyone, anytime—focusing on convenience, flexibility, and quality. We have a team of professionals dedicated solely to providing students with the custom academic and support services necessary for success.

## A reputation of excellence

Putting a Penn State degree or certificate on your résumé is a great way to broaden your career options and prove to employers that you are a well-educated professional.

## Flexibility and convenience

Penn State knows that adults need flexible and convenient learning options to continue meeting their professional and personal commitments. You can study when and where you please, earning your credential at your pace.

## Student support services

As a Penn State World Campus student, you will be supported by a team of knowledgeable and caring staff who understand the unique challenges of balancing work and personal responsibilities with online learning. You will have access to the

traditional student support services such as 24/7 technical support, career services, and a dedicated student affairs team, along with access to the University Libraries system and the opportunity to join clubs and organizations.

## Military and veteran students

We have aligned our online programs, student support services, policies, and procedures to support military personnel, veterans, and military family members.



# Frequently Asked Questions

## Is this the real Penn State?

Yes. Penn State World Campus was launched in 1998 as Penn State's virtual campus administered online. It has since grown into one of the most highly regarded online campuses—extending Penn State's long-standing reputation as a leader in higher education to students around the world.

## How much is tuition?

Tuition is based on cost-per-credit and is associated with your program of study. Tuition rates are assessed every semester of enrollment, giving you the flexibility to pay as you move through the program. Please visit our website for the most up-to-date tuition rates.

## How do online learners network?

In your courses, you will interact with peers from around the world. As you communicate regularly with classmates and faculty members, you'll gain insights that you can apply to your job immediately. As a Penn Stater, you will also have access to a proud network of more than 700,000 alumni. Upon your graduation, you can

choose to join the Penn State Alumni Association, the largest dues-paying alumni association in the world, with chapters offering social and networking events in most metropolitan areas.

## What does the online classroom look like?

Our philosophy for designing online courses: use the latest technology to best deliver the content in the most flexible way while keeping the technology transparent to you. We use one centralized platform where you can log in to your classroom. There you can get assignments, interact with faculty and peers, reply to message boards, and more.

## What will my diploma look like?

Your diploma will be the same one earned by resident students at Penn State. There is no indication on your transcripts or diploma that you earned your degree online. Upon completion of the program, you will be invited to walk with other graduates during commencement at Penn State's main campus in State College, Pennsylvania. We are one Penn State.

# Begin Your Application Today

The decision to pursue the Doctor of Engineering in Engineering is a serious one. It is strongly recommended that you contact the program office to discuss your potential program of study with the program team prior to submitting your application. The online program will be rigorous and competitive, and you should thoroughly understand the level of time and commitment that will be expected of you through the course of your studies. Admissions decisions for the Doctor of Engineering in Engineering program are based on the quality of your credentials after a thorough review of your completed application portfolio.

## Your application portfolio must include:

- › application form (completed and submitted online)
- › copy of official transcript from each undergraduate and graduate institution attended
- › three letters of reference
- › statement of purpose/goal statement that includes an overview of an identified problem to be examined as part of the required praxis research
- › published or unpublished scientific paper, thesis, or scholarly writing sample
- › curriculum vitae or résumé
- › interview (in person or via video conferencing)
- › TOEFL or IELTS score, if applicable

For application deadlines and up-to-date details about the program and admissions process, visit: [worldcampus.psu.edu/DEng-apply](http://worldcampus.psu.edu/DEng-apply)

## Did You Know?

- › Penn State World Campus is consistently ranked as a top provider of online education by *U.S. News & World Report*.
- › Penn State credits and degrees earned online are identical to those earned on campus.
- › Our online courses involve frequent interactions among students and faculty.



# Contact Us

## Admissions Questions

[worldcampus@psu.edu](mailto:worldcampus@psu.edu)

Phone: 814 863 5386

[worldcampus.psu.edu/admissions](http://worldcampus.psu.edu/admissions)



**PennState**  
World Campus

The Pennsylvania State University  
128 Outreach Building  
University Park, PA 16802



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