

# Nuclear Power Generation (Graduate Certificate)

ESNPGGRCT

## Program description

### **Degree awarded: Certificate Nuclear Power Generation (certificate)**

The nuclear power generation graduate certificate program is a transdisciplinary professional option within the Ira A. Fulton Schools of Engineering.

Students typically begin with the study of nuclear science and engineering fundamentals. Subsequent core courses focus on nuclear power plant dynamics and diagnostics, nuclear power plant operations and safety, and nuclear reactor theory and design.

Elective courses allow students to tailor their remaining studies toward facilitating their career goals and to focus on studies tied to their academic interests. Example elective courses include nuclear power engineering, health physics and electrical power plants.

## At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
- **Location:** [Tempe](#) or [Online](#)

## Degree requirements

15 credit hours

### **Required Core (9 credit hours)**

EEE 562 Nuclear Reactor Theory and Design (3)

EEE 563 Nuclear Reactor System Dynamics and Diagnostics (3)

EEE 564 Interdisciplinary Nuclear Power Operations (3)

## **Admission requirements**

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's degree in an engineering or science discipline, such as physics, chemistry and mathematics, from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants are required to submit:

1. graduate admission application and application fee
2. official transcripts
3. statement of career and educational goals
4. proof of English proficiency

### **Additional Application Information**

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

Transcripts should be submitted for all undergraduate and graduate coursework taken.

## **Tuition information**

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

## **Attend online**

### **ASU Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

## **Program learning outcomes**

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Master the key concepts in the nuclear engineering field at an advanced level.
- Master the key concepts in the power engineering field at an advanced level.

## Global opportunities

### PLuS Alliance

The PLuS Alliance partnership combines the strengths of three leading research universities from three continents --- Arizona State University, King's College London and UNSW Sydney --- to create and share knowledge that will solve pressing educational and societal challenges.



Students have the opportunity to collaborate with peers and specialists across the globe through PLuS-partner courses offered online. Through this PLuS Alliance collaboration certificate program, students develop transferable global competencies and gain exposure to international teaching and academic content. <https://www.plusalliance.org/global-learning-network-programmes>

## Career opportunities

The program prepares students and professionals from a variety of engineering and scientific disciplines to work effectively in the nuclear energy industry. Career options include positions in nuclear power plants, government regulatory agencies and national laboratories.

## Contact information

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