



## Arizona State University (Polytechnic Campus)

### Clean Energy Systems, MS

#### Study details

**Course type:** Master's degree

**Degree:** Clean Energy Systems, MS ESCESMS

**Study mode:** Full time

**Duration:** 24 Month

#### Cost of study

**Cost :** 29 880 USD

**Reg. fee :** 115 USD

**Scholarship :**

**Insurance :** 2 765 USD

#### Intake/s

Jan/Aug

#### Requirements

##### 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 or master's degree in clean energy systems, engineering or a related field 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 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 admissions application and application fee
2. official transcripts
3. professional resume
4. two letters of recommendation
5. written statement
6. proof of English proficiency

#### Additional Application Information:

An applicant whose native language is not English must provide proof of English proficiency (TOEFL 80 (no band below 20) (IELTS 6.5 at least 6.0 in all skills)) regardless of their current residency.

In the written statement, the applicant must include an introduction, share goals and explain why they decided to pursue graduate education.

Letters of recommendation should come from professors, managers, supervisors or professional associates.

## **Accommodation**

Provided by partner agencies;

On-campus housing and meals \$18,933

## **Speciality**

### **STEM-OPT for international students on F-1 visas**

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should review ASU degrees that qualify for the STEM-OPT extension at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

## **Additional information**

### **Program description**

Degree awarded: MS Clean Energy Systems

In the MS program in clean energy systems, students not only develop sophisticated engineering technical skills in clean energy systems; they also exercise the professional competencies of collaboration, communication, teamwork and adaptability. Students study a variety of energy sources, including fuel cells, power electronics, batteries, automotive systems and renewable energy systems. The applied courses within the program provide exposure to different disciplines, including electrical and electronics engineering, mechanical engineering, chemical engineering, chemistry and physics.

### **Accelerated program options**

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's plus master's degree with:

- Engineering (Automotive Systems), BSE
- Engineering (Electrical Systems), BSE
- Engineering (Mechanical Engineering Systems), BSE
- Engineering (Robotics), BSE

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program.

## **Career opportunities**

Graduates are prepared for opportunities in the diverse industries of alternative and renewable energy systems, power electronics and automotive technologies. They can work in large corporations and small businesses, research at government agencies such as Oak Ridge National Laboratory or the National Renewable Energy Laboratory, or go on to graduate school to pursue advanced degrees.

Graduates are prepared to go into the fields of:

- battery and fuel cell system design and integration
- electric and autonomous vehicle design
- renewable systems engineering --- design, integration
- renewable systems or technologies engineering --- validation, operation and maintenance, evaluation, quality, testing
- solar microinverter manufacturing engineering

With the emphasis on design and project-based learning of various clean energy systems, the program supports an entrepreneurial spirit, and some graduates start companies of their own.