Solar Energy Engineering and Commercialization, PSM

ESSEECPSM

Program Description

Degree Awarded: PSM Solar Energy Engineering and Commercialization

The PSM in solar energy engineering and commercialization offers advanced, interdisciplinary education in solar energy to students with backgrounds in science, technology, engineering or mathematics (i.e., STEM fields). The objective of the program is to enable graduates to pursue careers in industry, government or the nonprofit sector that involve solar energy and its utilization. Students in the program must select courses from technical and nontechnical tracks, including solar energy policy, spanning a number of academic programs and schools. Opportunities exist for engagement with the solar energy industry or government policymakers, leading to a required applied research project that culminates the program. The degree program is meant to be completed in 12 months for full-time students.

At a Glance

- College/School: Ira A. Fulton Schools of Engineering
- Location: Tempe campus

Accelerated Degrees

This degree is also offered in an accelerated format with:

- Engineering (Electrical Systems), BSE
- Mechanical Engineering, BSE
- Mechanical Engineering (Computational Mechanics), BSE
- Mechanical Engineering (Energy and Environment), BSE

Acceptance to the graduate program requires a separate application. During their junior and senior years, eligible students will be advised by their academic departments to apply.
Degree Requirements

30 credit hours including the required applied project course (MAE 593 or SEC 593)

Required Core (9 credit hours)
GCU 598 Topic: Solar Energy and Public Policy (1)
HSD 594 Solar Energy Policy Workshop (2)
SEC 588 Solar Energy Colloquium (3)
one approved solar photovoltaic graduate course (3)

Electives (15 credit hours)

Culminating Experience (6 credit hours)
SEC 593 Applied Project (6)

Additional Curriculum Information
The solar photovoltaic graduate course for the required core is selected from a list of approved courses, including but not limited to ALT 507 Evaluations of Photovoltaics and Fuel Cell Systems (3), ALT 535 Applied Photovoltaics (3), EEE 565 Solar Cells (3), and EEE 591 Topic: Solar Energy (3).

Of the electives, six credit hours must be selected from the list of technical courses and six credit hours must be selected from the list of nontechnical courses. An additional three credit hours are required and can be selected from either the technical or nontechnical course list. Students should see the academic unit for the approved course lists.

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 minimum of a bachelor's degree in a field such as science, technology, engineering or mathematics (STEM) from a regionally accredited institution or the equivalent of a U.S. bachelor's degree from an international institution that is officially recognized by that country.

Applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in the last 60 hours of a student's first bachelor's degree program.

All applicants must submit:
1. graduate admission application and application fee
2. official transcripts from each institution from which a degree was earned
3. general GRE
4. three letters of recommendation
5. personal statement
6. proof of English proficiency

Additional Application Information
An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency. The minimum TOEFL requirement is 550 (PBT) or 80 (iBT --- a score of 90 or higher is recommended). The minimum IELTS requirement is an overall band score of 6.5, with a score of 7.0 or higher recommended. The minimum Pearson Test of English requirement is 60.

Other details regarding English proficiency requirements are described on the Graduate College website at https://students.asu.edu/graduate/proficiency.

Deadlines

Fall

Spring

Contact Information

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