



## Arizona State University (Tempe campus)

### Biomedical Engineering, MS

#### Study details

**Course type:** Master's degree

**Degree:** Biomedical Engineering, MS ESBIOENMS

**Study mode:** Full time

**Duration:** 15 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 any 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.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. resume or curriculum vitae
4. a statement of purpose
5. two letters of recommendation
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.

#### Accommodation

##### Speciality

STEM OPT for international students on F-1 visas

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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 Biomedical Engineering

The School of Biological and Health Systems Engineering faculty offer a graduate program leading to the MS in biomedical engineering.

Areas of study include:

- biomaterials, biosensors, biomarkers and biomimetic materials
- biomedical imaging
- molecular, cellular and tissue engineering
- neural and rehabilitation engineering
- synthetic and systems biology

The biomedical engineering program offers an accelerated BSE/MS degree in biomedical engineering for students in the Bachelor of Science in Engineering program who have maintained a GPA of 3.50 (scale is 4.00 = "A") into their junior year. The program allows up to 12 credit hours of graduate-level coursework taken during the senior year to be applied toward both the undergraduate and graduate degrees.

## **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:

- Biomedical Engineering, BSE
- Biomedical Engineering (Biological Devices), BSE
- Biomedical Engineering (Biomedical Devices), 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.

## **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:

- Ability to develop a research or design project in biomedical engineering for students who will be completing a thesis or an applied project
- Ability to evaluate quantitative problems related to biomedical engineering by applying statistical analysis, mathematical modeling, and image processing methods related to biomedical engineering
- Ability to communicate biomedical concepts to an interdisciplinary audience through data synthesis, interpretation and visualization

## Career opportunities

Professionals who specialize in biomedical engineering research areas are in high demand by local, national and international employers across sectors and industries, including business, academia, health care, government and research.

Career examples include:

- biochemical engineer
- bioinformatics scientist
- biomedical engineer
- geneticist
- health sciences manager
- medical scientist
- molecular biologist
- nanosystems engineer