Arizona State University (Tempe campus)

Computer Science (Biomedical Informatics), MS

Study details

Course type: Master's degree
Degree: Computer Science (Biomedical Informatics), MS ESCSBIOIMS
Study mode: Full time
Duration: 24 Month

Cost of study

Cost : 29 880 USD
Reg. fee : 115 USD
Scolarship :
Insurance : 2 765 USD

Intake/s

Jan

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 computer science, computer engineering or a closely related area.
- Applicants must have a minimum cumulative GPA of 3.25 (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 3.25 (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. GRE scores
4. statement of purpose
5. 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.

The student must submit verbal, quantitative and analytical GRE scores (optional: subject test in computer science) unless the student has graduated with an undergraduate degree in computer

science or computer systems engineering from ASU. ASU does not accept the GRE® General Test at home edition.

Students assigned any deficiency coursework upon admission must complete those classes with a grade of "C" or higher (scale is 4.00 = "A") within two semesters of admission to the program. Deficiency courses are:

CSE 230 Computer Organization and Assembly Language Programming
CSE 310 Data Structures and Algorithms
CSE 330 Operating Systems
CSE 340 Principles of Programming Languages or CSE 355 Introduction to Theoretical Computer Science

The applicant's undergraduate GPA and depth of preparation in computer science and engineering are the primary factors affecting admission.

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 Computer Science (Biomedical Informatics)

The MS program in computer science with a concentration in biomedical informatics is designed for graduate students who wish to perform research in such topics as genomics and computational systems biology.

The concentration is transdisciplinary in nature, providing preparation that integrates technological expertise in the information sciences, computer science, biosciences and statistics with an understanding of the clinical environment of the health care professional. The curriculum exposes computer science students to current issues in clinical practice as well as the use of information systems in health care settings.

Biomedical informatics has a key role to play in the transition to more effective and efficient health care through the use of knowledge and computer science principles.

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:

- Computer Science, BS
- Computer Science (Cybersecurity), BS
- Computer Science (Software Engineering), BS
- Computer Systems Engineering, BSE
- Computer Systems Engineering (Cybersecurity), BSE
- Software Engineering, BS

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 of the Master of Science program in computer science with a concentration in biomedical informatics are able to analyze and apply key theories, algorithms and software modules used in the field of computer science.

Career examples include:

- biomedical researcher
- computer network architect
- computer systems analyst
- computer systems engineer
- data scientist or engineer
- machine learning, AI computer vision engineer
- software developer
- software engineer