Arizona State University (Tempe campus)

Computer Science, MS

Study details

Course type: Master's degree
Degree: Computer Science, MS ESCOMSCMS
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 from a regionally accredited institution.
- 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 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. a 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.

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If the student has graduated with an undergraduate degree in computer science or computer systems engineering from ASU, GRE scores are not required. 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" (scale is 4.00 = "A") or higher within two semesters of admission to the program. Deficiency courses include:

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

The MS program in computer science prepares students to undertake fundamental and applied research in computing.

The program welcomes motivated and dedicated students to work with world-class faculty on projects across the field of computing and augmented intelligence. Students may choose a thesis or nonthesis option as their culminating event. Students can study topics such as:

- artificial intelligence, machine learning and statistical modeling
- big data and data mining
- computational biology
- computer design and architecture, including nonvolatile memory computing
- computer system security, cybersecurity and cryptography

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- cyber-physical systems, IoT and robotics
- distributed computing and consensus protocols
- networking and computer systems
- novel computing paradigms (e.g., biocomputing, quantum computation)
- social computing
- theory, algorithms and optimization
- visualization and graphics

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

Students who complete the Master of Science program in computer science are able to analyze key theories, algorithms and software modules used in the field of computer science. The program prepares them to pursue careers in research and education, including academia, government and industry.

Career examples include:

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

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