



## The **Master of Science** in **Computer Science**

### **Mastering the science...and the art...of computer science.**

A career in computer science can take you far. And while an undergraduate degree can gain you entry into the field, a master's degree in computer science can help you advance to senior-level roles that require not only strategic planning and managing technology, but also a deep understanding of technology, excellent communication skills and savvy problem-solving abilities.

### **Master of Science in Computer Science**

The Master of Science in Computer Science at the University of Missouri–St. Louis blends innovative research with exceptional educational programs that include the theoretical foundations, research and practical experiences necessary for success in a wide range of fields.

The MS in Computer Science is a 30-credit-hour program that offers three different options from which to choose:

- **Traditional Option** that allows students to complete a traditional computer science graduate program.
- **Certificate Option** for students interested in specializing in a very specific area of study such as Artificial Intelligence, Cybersecurity, Data Science, Internet and Web, and Mobile Apps and Computing.
- **Professional Option** for those who have a bachelor's degree and have been working in a computing/technology field for a minimum of three years. This option allows working professionals to earn their master's while utilizing their professional experience.

What's more, Department of Computer Science faculty members at UMSL are some of the most highly regarded in their field. In fact, four of our faculty members are among the top two percent of scientists and researchers in their fields worldwide as measured by career research awards.

### **2+3 BS/MS Dual Degree Program**

The MS in Computer Science is also offered in the 2+3 program format. This unique 2+3 dual degree program provides a pathway for students to earn both a bachelor's and a master's degree in computer science with fewer total credit hours than would be required to complete each degree independently. Once all requirements have been met, students will be awarded both a BS and an MS and are able to enter the job market with a competitive edge.

## Transforming Lives

The Master of Science in Computer Science at UMSL is earned through our College of Arts and Sciences, the academic core of the University of Missouri–St. Louis. Through academic programs offered on- and off-campus, traditional and nontraditional students gain knowledge, skills and intellectual leadership for a variety of career paths, advanced study and research in many academic disciplines.

Graduates are known for their professionalism on the job and their strong sense of civic responsibility. Students in our programs engage in creative and critical thinking, learn to analyze evidence, to appreciate patterns of complexity and to reflect on important issues that impact our daily lives. Students gain skill sets to prepare for a changing workplace that requires flexible, dynamic and well-educated employees.

The Department of Computer Science offers exciting, high-quality graduate degree programs and certificates. UMSL is also one of only two institutions in Missouri designated as a National Center of Academic Excellence in Cyber Defense Education by the National Security Agency and the Department of Homeland Security.

### Serious education. Serious value.

The Master of Science in Computer Science is designed to provide specialized knowledge, skills and training in a flexible format, with classes available in-person, online and in a hybrid format. You'll learn from highly qualified educators and researchers who hold terminal degrees from some of the world's most prestigious academic institutions.

The University of Missouri–St. Louis provides the knowledge, resources, tools, skills and support students need to be successful in our programs. Our comprehensive student support services include workshops, tutoring and career services to help you develop skills and strategies to be successful in the classroom and beyond. We're also committed to increasing access to higher education, and as such, UMSL is consistently ranked number one in affordability in the St. Louis region.

**Learn more at [compsci.umsl.edu](https://compsci.umsl.edu)**

The University of Missouri–St. Louis is the largest public research university located in Missouri's most populous and economically important region. UMSL provides high-quality, affordable education to one of the most diverse student bodies in the state. No university is better connected to the surrounding region than UMSL. More than 75% of our graduates stay in St. Louis. The region needs a well-equipped workforce and UMSL is prepared to help you meet those needs. Choose the University of Missouri–St. Louis for computer science.

## Career Opportunities

Artificial Intelligence Specialist  
Chief Technology Officer  
Computer Information Research Scientist  
Computer Network Architect  
Computer Systems Manager  
Database Administrator  
Digital Forensics Analyst  
Director of Software Engineering  
Information Security Manager  
Information Systems Analyst  
Mobile App Developer  
Network and Systems Administrator  
Software Developer  
Web Developer

### College of Arts and Sciences

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### Department of Computer Science

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### Office of Graduate Admissions

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