Saint Louis University’s Master’s in computer science is designed to prepare students for rewarding and in-demand careers that leverage the power of computers, algorithms and data analyses to impact the world in a positive manner.

The graduate program in computer science provides students with the depth of knowledge necessary to pursue advanced academic or technological work in a modern, ever-changing world. Students learn enhanced analytical skills through an in-depth understanding of theoretical and practical concepts, written and oral communication skills and the critical and creative thinking skills required to advance in the field.

Careers in computer science can be highly rewarding, provide great compensation and excellent work environments. Positions in this field include software developer, computer systems analyst, computer network architect, web developer, database administrator and information security analyst and are regularly found on “best jobs” lists.

The curriculum consists of 33 credit hours of coursework including the following:
- CSCI 5030 Principles of Software Development
- CSCI 5050 Computing and Society
- CSCI 5090 Computer Science Colloquium
- At least one selection from the Software Engineering courses
- At least one selection from the Theory courses
- At least one selection from the Systems courses
- Additional selections chosen from at least two of the following categories: Compilers and Languages, Large Scale Systems, Knowledge/Information Systems, Advanced Applications

DEGREES & PROGRAMS
- Master of Science (M.S.) in Computer Science
- Master of Science (M.S.) in Software Engineering

APPLICATION REQUIREMENTS
- Application form and fee (if applicable)
- Transcript(s)
- GRE scores
- Three letters of recommendation
- Résumé or curriculum vitae

ADMISSION CRITERIA
A bachelor’s degree in computer science, mathematics, statistics or closely related field
Undergraduate GPA above 3.0 (students with less than a 3.0 may be provisionally admitted).
International students whose native language is not English must provide evidence of English language proficiency by submitting their TOEFL or IELTS results.

Minimum scores required:
- TOEFL PBT 550
- TOEFL IBT 80
- IELTS 6.5

Saint Louis University is a world-class Catholic, Jesuit institution educating nearly 13,000 students on two dynamic, urban campuses - in St. Louis, Missouri, and Madrid, Spain. Founded in 1818, the University is now celebrating its bicentennial.

With a legacy of innovative academics and research, compassionate health care and faithful service, Saint Louis University attracts a diverse community of scholars who push intellectual boundaries in pursuit of creative, meaningful ways to impact the world, striving to serve a higher purpose and seek a greater good.
Computer Science
+ College of Arts and Sciences

FACULTY

Ted Ahn, Ph.D., bioinformatics and high-performance computing
Erin Wolf Chambers, Ph.D., algorithms and computational geometry
Flavio Esposito, Ph.D., network virtualization, edge computing
David Ferry, real-time systems
Jason Fritts, Ph.D., computer graphics, image processing, virtual reality
Michael Goldwasser, Ph.D., algorithms, computer science education
David Letscher, Ph.D., computational topology, data science
Kevin Scannell, Ph.D., machine learning, natural-language processing
Jacob Sukhodolsky, Ph.D., software engineering

SLU faculty are outstanding, both for their advanced knowledge of the field and their enthusiasm in guiding students through their own discovery and exploration.

The St. Louis region has a strong computer science ecosystem, including technical operations for many Fortune 500 companies, as well as a vibrant start-up community, including incubators such as CORTEX and T-REX, near to SLU’s campus.

SLU’s research-based curriculum and externally funded support foster a strong student-faculty learning environment and extensive research involvement.

FINANCIAL SUPPORT

Saint Louis University’s Department of Computer Science offers merit-based graduate assistantships for full or partial tuition in addition to a stipend for living expenses. The department also offers a limited number of tuition-only scholarships to help lessen students’ financial burden. The deadline to apply is Feb. 1 for consideration for the following fall semester.

There are also many opportunities for students to receive funding through external research grants that are managed directly by individual faculty.

For information on scholarships and financial aid, please visit the student financial services office online at finaid.slu.edu.