WHY SCRANTON?
A University of Scranton MSSE

Jesuit values. Successful outcomes. You’ll find all of this – and more – when you choose The University of Scranton for your Master of Science in software engineering (MSSE) studies. Our dedicated faculty will work alongside you as you pursue a higher level of education at The University of Scranton.

AT A GLANCE
Designed to develop software professionals who are knowledgeable about and skilled in the application of principles related to the development and maintenance of computer software.

REAL WORLD RESULTS
Filling a Growing Need
Graduates of the MSSE program have been hired by companies such as New York Times, Tumblr, American Express, Denco Denal and Metlife.

TECHNOLOGY
Students have access to a number of computing platforms, including MS Windows, Linux, and FreeBSD. These resources are networked and accessible from both on and off campus. The Computing Science Department is a subscriber of the Microsoft Imagine Academy program, which offers students a wide range of Microsoft development tools and software such as Visual Studio, .NET framework, SQL Server, and Windows operating systems. Open source systems and tools are extensively used in the program, including Oracle’s Java, PHP, Linux, FreeBSD, MySQL, PostgreSQL, Apache and Eclipse.

JESUIT VALUES
• A strong emphasis on ethics, social justice & environmental responsibility
• Corporate social responsibility
• Develop well-rounded & thoughtful contributors to society
• Dedication to excellence in education & care for the entire person
• Highlighting global perspectives
**CURRICULUM Programs of Study**

**COLLEGE OF ARTS AND SCIENCES**

**Master of Science in Software Engineering**

---

**GETTING RECOGNIZED**

Results, reputation & ethics drive our education.

Top 10 “Best Colleges” for 25 consecutive years
— U.S. News & World Report

Among the “10 top master’s universities in the North”
— U.S. News & World Report

---

**FUNDAMENTAL COURSES:** (12 credits required):

SE 500: Mathematics for Software Engineering
SE 501: Introduction to Software Development
SE 504: Formal Methods & Models
SE 507: Requirements Analysis & Software Specification

**ADVANCED COURSES:** (18 credits required):

SE 510: Principles & Applications of Software Design
SE 524: Software Project Management
Elective course work (12 credits)

**THESIS PROJECT:** (6 credits required):

SE 598: Project Analysis & Design
SE 599: Project Implementation & Evaluation

---

**WHAT NEXT? HOW TO PROCEED FROM HERE >>**

**ADMISSION**

**Admission Criteria for Acceptance**

Admission to the MSSE program is based on a combination of indicators including previous academic performance with the completion of a bachelor’s degree in computer science or a related field and three professional letters of recommendation.

**SCHEDULE A VISIT**

Personal appointments with an Admissions representative are offered Monday through Friday and can provide insight to the application and admission process. Sign up online to register for your visit at: [scranton.edu/gradvisit](http://scranton.edu/gradvisit)

**APPLY NOW**

We welcome applications on a rolling basis for all available terms. To apply to the MSSE program, or for additional application and admission information, please visit: [scranton.edu/gradapply](http://scranton.edu/gradapply)

**CONTACT THE PROGRAM DIRECTOR**

You are encouraged to contact the Program Director, Dr. Yaodong Bi, for information on the academic components of the Software Engineering program. To contact Dr. Bi, please email yaodong.bi@scranton.edu or call 570.941.7774.

**CONTACT**

- Office: 570.941.4416
- gradadmissions@scranton.edu
- scranton.edu/gradeducation

**LOCATION**

The University of Scranton
Office of Graduate Admissions
The Estate, Scranton, PA, 18510-4699

---

**DO MORE**

**Graduate Assistantships**

Graduate assistantships are available on a competitive basis to graduate students who seek to strengthen the breadth and quality of the educational experience. Graduate assistants work with faculty and staff in the areas of teaching, research and/or administration. The graduate assistant is awarded a tuition scholarship as well as a stipend. More at: [scranton.edu/ga](http://scranton.edu/ga)

**Career Development Services**

MSSE students have full access to the services of the Gerard R. Roche Center for Career Development, which include resume and cover letter writing, interview and job search techniques, and participation in employer on-campus recruiting visits and Career Expos. Students and alumni can access a wide range of employment opportunities through the office’s online job posting system. The career team is available to consult for advice and support throughout your career. More at: [scranton.edu/careers](http://scranton.edu/careers)

---

**GETTING RECOGNIZED**

Results, reputation & ethics drive our education.

Top 10 “Best Colleges” for 25 consecutive years
— U.S. News & World Report

Among the “10 top master’s universities in the North”
— U.S. News & World Report

---

**FUNDAMENTAL COURSES:** (12 credits required):

SE 500: Mathematics for Software Engineering
SE 501: Introduction to Software Development
SE 504: Formal Methods & Models
SE 507: Requirements Analysis & Software Specification

**ADVANCED COURSES:** (18 credits required):

SE 510: Principles & Applications of Software Design
SE 524: Software Project Management
Elective course work (12 credits)

**THESIS PROJECT:** (6 credits required):

SE 598: Project Analysis & Design
SE 599: Project Implementation & Evaluation

---

**WHAT NEXT? HOW TO PROCEED FROM HERE >>**

**ADMISSION**

**Admission Criteria for Acceptance**

Admission to the MSSE program is based on a combination of indicators including previous academic performance with the completion of a bachelor’s degree in computer science or a related field and three professional letters of recommendation.

**SCHEDULE A VISIT**

Personal appointments with an Admissions representative are offered Monday through Friday and can provide insight to the application and admission process. Sign up online to register for your visit at: [scranton.edu/gradvisit](http://scranton.edu/gradvisit)

**APPLY NOW**

We welcome applications on a rolling basis for all available terms. To apply to the MSSE program, or for additional application and admission information, please visit: [scranton.edu/gradapply](http://scranton.edu/gradapply)

**CONTACT THE PROGRAM DIRECTOR**

You are encouraged to contact the Program Director, Dr. Yaodong Bi, for information on the academic components of the Software Engineering program. To contact Dr. Bi, please email yaodong.bi@scranton.edu or call 570.941.7774.

**CONTACT**

- Office: 570.941.4416
- gradadmissions@scranton.edu
- scranton.edu/gradeducation

**LOCATION**

The University of Scranton
Office of Graduate Admissions
The Estate, Scranton, PA, 18510-4699

---

**DO MORE**

**Graduate Assistantships**

Graduate assistantships are available on a competitive basis to graduate students who seek to strengthen the breadth and quality of the educational experience. Graduate assistants work with faculty and staff in the areas of teaching, research and/or administration. The graduate assistant is awarded a tuition scholarship as well as a stipend. More at: [scranton.edu/ga](http://scranton.edu/ga)

**Career Development Services**

MSSE students have full access to the services of the Gerard R. Roche Center for Career Development, which include resume and cover letter writing, interview and job search techniques, and participation in employer on-campus recruiting visits and Career Expos. Students and alumni can access a wide range of employment opportunities through the office’s online job posting system. The career team is available to consult for advice and support throughout your career. More at: [scranton.edu/careers](http://scranton.edu/careers)