

### MONMOUTH UNIVERSITY

#### GRADUATE PROGRAMS



Software Engineering

Software Engineering—

the right program, at the right time



onmouth University's graduate program in software engineering offers a modular approach, designed to accommodate a variety of students with different backgrounds, education, and experience. The program allows students to begin their studies in software engineering at different levels and to pursue a variety of educational goals.

Over the last decade, the demand for highly skilled software engineers has increased dramatically. According to the Bureau of Labor Statistics, computer software engineering is projected to be the fourth-fastest-growing occupation in the country through 2016. Also, software engineering is cited as the best job in America by CNNMoney.com, with a ten-year expected growth of 46 percent until 2016.

the program

- Monmouth's software engineering department debuted in 1995 as the first of its kind in the nation.
- Monmouth offers the only accredited Bachelor of Science in Software Engineering program in New Jersey, which is one of only nineteen accredited BS programs in the nation.
- Monmouth offers the only Master of Science in Software Engineering in New Jersey and one of only thirty-five in the nation.

here are three options available to help you begin, or to advance, your career in this exciting field:

● The Master of Science in Software Engineering combines a mastery of the foundations of the discipline, as well as advanced studies, under faculty members who are recognized experts in the field. You will learn skills necessary to be a successful team contributor in all aspects of software development, such as requirements, design, development, testing, maintenance, process, project management, and interface design. One of the key skills that students develop is the ability to evaluate and document improvements in software development and maintenance processes. The program offers thesis or non-thesis tracks with an optional advanced-level curriculum.

**The Certificate in Software Development** prepares students to become proficient software developers. It also serves as a preparatory program for those who do not have the necessary background but hope to enter the master's program. It is the ideal entry into the field for those professionals who have earned a bachelor's degree in another discipline.

◆ The Certificate in Software Engineering gives students an understanding of team dynamics, software capability, and performance. Requirements include the fifteen credits of core courses needed to enter the Master of Science in Software Engineering plus a 3-credit course in software project management. (Up to fifteen credits of foundation courses may be required.) After completing this program, you will have the ability to work in a team environment developing software to solve practical problems, a critical skill for career success and advancement.









## how will I benefit?

- Gain skills that prepare you for multiple career choices
- Work closely with faculty with many years of industrial experience who can relate to the career goals of students
- ODiscover opportunities to work on campus at the University's Rapid Response Institute
- Participate in an ongoing relationship with fellow students and faculty in a community atmosphere
- Explore internships and work experience that can be found at high-tech companies in the local area

## focus on: Michael



"I am really indebted to Monmouth University. It has been the foundation upon which I have been able to build a successful engineering career. Not only have I received an excellent education, I have been introduced to, and collaborated with, some of the best researchers and practitioners from around the world.

"MU's collaboration with local business to provide realworld experience for its students is extraordinary. This collaboration not only kick-started my career, but along with the education I received, continues to allow me to advance above and beyond my own expectations.

"I will be forever indebted to MU and am honored to call MU my alma mater. GO HAWKS!!"

—Michael Smith Chief Architect Siemens Industry, Inc. U.S. Army Veteran





#### what are the requirements?

 Possession of a baccalaureate degree in software engineering, computer science, computer engineering, or another engineering-related discipline with a minimum

2.5 overall GPA and a minimum 3.0 GPA in the undergraduate major.

 Candidates whose undergraduate major was not in one of these fields may be admitted on a case-bycase basis Application Deadlines
Fall Semester: July 15
Spring Semester: November 15
Summer Sessions: May 1

- Demonstrate completed course work in computer programming, data structures and algorithms, operating systems, and object-oriented analysis and design. Applicants who have not completed course work in these areas will be required to complete the preparatory/foundation courses as necessary.
- Thesis-track students must hold a bachelor's degree in software engineering from a college or university accredited by its regional accrediting agency.

#### **English proficiency requirements for international students**

**TOEFL:** Paper-based version—550 Computer-based—213 Internet-based—79

**IELTS:** 6.0

Application Deadlines for International Students: Fall Semester—June 1

Spring Semester—November 1

invest in your future

Graduate scholarship awards are available to matriculated students in all master's degree programs and are renewable for each semester of enrollment at Monmouth University.

Award values are also based on the total number of credits taken each semester and range from \$300 to \$3,700 per semester.

Outstanding graduate students may be eligible for assistantships.

Partial-tuition scholarships are available to students

who have completed a master's degree at Monmouth University and who return to the University to matriculate for a second master's degree or certificate.

See Monmouth University's Financial Aid Web page for more information at **www.monmouth.edu/financialaid**.





#### start here:

To find out more about Monmouth's software engineering program, visit the department's Web site at <a href="www.monmouth.edu/graduate\_SE">www.monmouth.edu/graduate\_SE</a>. Call the Office of Graduate Admission at 732-571-3452 or visit our Web site at <a href="www.monmouth.edu/graduate">www.monmouth.edu/graduate</a> to contact a graduate admission counselor. Begin planning for your future as a Monmouth University graduate student!



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#### www.monmouth.edu

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Monmouth University supports equal opportunity in recruitment, admission, educational programs, and employment practices, and complies with all major federal and state laws and executive orders requiring equal employment opportunity and/or affirmative action.

