ITU

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Program Overview

The Department of Software Engineering prepares its graduates for successful careers as computer scientists or software engineers in all fields that utilize computerization or software. Software engineering is an established discipline comprised of requirement analysis, design, construction, testing, as well as the economic management involved in the creation and maintenance of new software.

ITU's curriculum for a Master of Science in Software Engineering (MSSE) is concerned with the technical and management issues of software engineering, but primary emphasis is placed on the technical aspects of building and modifying high quality software systems. It allows the students to prepare for careers in businesses that build and sell computers and/or software, Internet-based companies, electronic businesses, diverse research and development laboratories, aerospace companies, banks, and insurance agencies. This graduate curriculum was developed with consideration to the Joint Task Force on Computing Curricula of the IEEE Computer Society and the Association for Computing Machinery of August 2004 recommendations.

Why You Should Apply

At ITU, you will be able to take advantage of:

- Industry-leading courses aimed at helping you build applications from the ground up.
- A holistic education geared to help you lead teams of developers and make software with speed and efficiency.
- Flexible night and weekend classes and online course offerings that allow you to continue your career while furthering your education.
- A STEM program that is designed to teach students the skills required to thrive in Silicon Valley's ever-evolving tech sector.

Curriculum Highlights

Our 36 credit hour curriculum is completed in 16 months. The 36 credit hours are composed of core courses, electives, cross disciplinary electives, capstone or thesis, and an internship.

Sample Courses

- Principles of Ethical Hacking
- Machine Learning
- Cloud Computing
- Internet of Things (IoT) Architecture & Security
- Big Data

36 credit hours

16 Months for Full Time | **32 Months** for Part Time

Admission Requirements

Bachelor's Degree With a minimum GPA of 2.75 or a Master's degree with a minimum GPA of 3.0.

Proof of English proficiency*: All applicants whose native language is not English and who did not receive either a bachelor's or graduate degree from an English-speaking institution must take an English proficiency test.

Test of English as a Foreign Language (TOEFL) examination; 78 or better for the internet-based test (ibt).

International English Language Testing System (IELTS) examination; band score of 6.0 or better for the academic module.

Demonstrate commitment to contribute to and complete the program.

U.S. citizens or U.S. Permanent* Residents that have earned an undergraduate or graduate degree from a regionally accredited institution in the U.S. are waived from this requirement.

Deadlines

Applications are reviewed on a rolling basis and considered for admission to the next available trimester start date.

One-On-One Advising

We are here to help. Email us for application assistance at **admissions@itu.edu**

Studying In Silicon Valley

ITU is in the heart of Silicon Valley. Our centrally located campus allows students to uncover the far-reaching opportunities offered in one of the world's leading business hubs. As an ITU student, you will study among some of the world's biggest companies. Our campus neighbors the headquarters of leading firms such as Facebook, Google, and eBay. The university's location gives each student the chance to learn and network with the best talent in the tech field.

Outside of your studies, you can spend your spare time exploring the distinctive culture of Northern California. Discover the exciting nightlife of the area by visiting local hotspots such as San Francisco's Haight-Ashbury and Pier 39. Take a break from city life with a day trip to some of California's premier beaches and mountain trails. Or spend a weekend further north touring Napa's Wine District, traversing Yosemite, or enjoying the many activities found in bustling Lake Tahoe.

CAREER DEVELOPMENT

RENOWNED FACULTY

SILICON VALLEY RESOURCES

ENTREPRENEURSHIP

Career Opportunities

- Business Analyst
- Cognos Developer
- Computer Programmer
- Data Analyst
- Data Collector

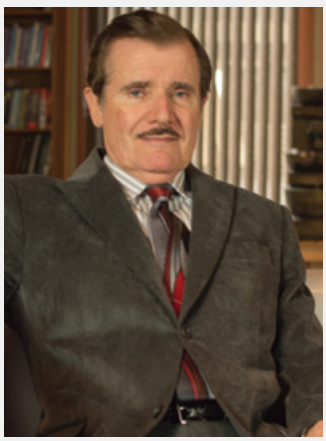
17%

Projected job-growth rate for computer software.

$102,280

Median annual wage for software developers in 2016.

U.S. Bureau of Labor Satistics



DEPARTMENT CHAIR OF COMPUTER SCIENCE

Cornel Pokorny, Ph.D., received his Doctorate in Computer Science from Technical University in Austria. His research areas are computer graphics, object oriented design, and web programming.

Dr. Pokorny worked for five years as Assistant Professor at the Technical University in Vienna, one year in Mainland China in linguistic studies, and three years as a project manager in the German industry. There he developed one of the first generators for Chinese characters in an electronic inkjet printer.

About ITU

ITU pioneers an industry-focused educational model to deliver education globally. ITU's pedagogy cultivates innovative thinking, ethical leadership, and entrepreneurial spirit through practical, industry-relevant curriculum reflecting Silicon Valley's culture. ITU closes the employment skills gap and empowers students to lead successful, enriching lives as meaningful contributors to the global community.

International Technological University | 2711 N. 1st St. San Jose, CA 95134 | itu.edu