

# MASTER OF SCIENCE INFORMATION SYSTEMS

Use your critical thinking and tech skills to gain a competitive edge. You'll use the latest web technology to analyze, organize and manage valuable business information, preserve privacy and lead complex projects.

## KEY CONCEPTS

- Artificial intelligence
- Big data
- Client/server architectures
- Data processing
- Database management
- Digital business markets
- Healthcare information systems
- Predictive analytics
- Project management
- Optimization modeling
- Simulation modeling

## INDUSTRY-SPECIFIC TOOLS

- Amazon Web Services
- Python
- Arena
- R
- Hadoop
- SQL

## VALUABLE CAREER BENEFITS



### Learn the Latest Technology in Information Systems

Learn the best ways to manage data using the latest analytics tools and explore how to help business leaders further adapt to a changing technological landscape.



### Participate in Real-World Business Scenarios

Through case competitions and simulated exercises, you'll refine your skills with experiences that mirror the challenges you'll face in the workplace.



### Develop Business Strategy Skills

Your professors will challenge you to critically think about solutions to the complex business problems employers regularly face.

## PROGRAM DETAILS

**STEM ELIGIBLE PROGRAM**

**2 OR 3 SEMESTERS**

**30 CREDITS**

## WHO SHOULD APPLY

Recent college graduates with a strong statistical, computer science and/or mathematical background who want to serve as a liaison between technical teams and business leadership.

# \$76k

Average starting salary  
of our MSIS graduates\*  
(2020)

# 90%

MSIS students who secure  
employment within six  
months of graduating\*  
(2020)

# 46%

Tech employers planning to hire  
job candidates with a master's  
degree in information technology  
(GMAC, 2019)

# 10%

Faster-than-average 10-year job  
growth for information  
systems managers  
(BLS, 2019-2029)

## POTENTIAL JOB TITLES

- Big data developer
- Business intelligence analyst
- Data analyst
- Data scientist
- Product manager
- Risk systems developer

## GRADUATES' JOB PLACEMENTS

## EXPERT, WORLD-CLASS FACULTY



### Kislaya Prasad

- Guest scholar at the Center on Social and Economic Dynamics at The Brookings Institution.
- Expert in data mining, quantitative decision-making and economic behavior.



### Sujin Kim

- More than a decade of experience researching and teaching on industrial and technological information systems.
- Expert in simulation methodology and stochastic simulation-based optimization used in electric power and health service systems.

“

*The MSIS program was the right balance of statistical, analytical and business courses connecting together to form a picture of an information system. It has helped me understand the use of data in making business decisions.*

”

— Asmita Neketar, MS Information Systems '19, Data Analyst at Capgemini

\*Data for 2020 graduates who reported their U.S. salaries to Maryland Smith's Office of Career Services.

## LEARN MORE

CALL: 301.405.2559 | EMAIL: SMITHMASTERS@UMD.EDU | VISIT: GO.UMD.EDU/MSINFOSYSTEMS

