School of Information Systems & Management (ISM)

2015 Fall Visitation
Carnegie Mellon

Ranked by:

• 1st in Information and Technology Management
• 1st in Computer Science
• 2nd in Management Information Systems and Quantitative Analysis (undergrad)
• 4th in Computer Engineering

19 Nobel Laureates
Why CMU – HEINZ – ISM Degree?

• ISM: Distinct teaching approach of combining IT excellence with best business practices
• There is a shortage of IS/IT, Cyber Security, and Analytic professionals in the U.S.
• Doors open up with a CMU graduate degree
• For domestic students – Lots of available scholarship money
ISM FULL-TIME DEGREES:

MISM: Master of Information Systems Management
• Pittsburgh campus - 3 semesters (12 or 16 months)
• Adelaide & Pittsburgh - 4 semesters (21 months)

MSISPM: Master of Science in Information Security Policy & Management
• Pittsburgh campus
• 3 or 4 semesters (16 or 21 months)
• Qualifies for Scholarship for Service
ISM PART-TIME DEGREES:

MSIT: Master of Science in Information Technology

- 4 Degree Options:
  - MSIT – IT Management
  - MSIT – Business Intelligence and Data Analytics
  - MSIT – Information Security and Assurance
  - MSIT – Software Design and Management

- Evening and distance class options
- 2-5 years to complete degree
Masters in Information Systems Management (MISM)

• Accelerated full-time program (180 units)
• Proven track record in **consulting**, **financial services**, and **technology** job placements
• Complements a technical background with applied business skills
MISM Curriculum

REQUIRED: 102 units core, 30 units capstone
ELECTIVES: 48 units general electives

Technology Core
- Database Management
- OOP in Java
- Distributed Systems
- Object Oriented Analysis & Design *
- Managing Disruptive Tech *

Management Core
- Principles of Finance/Accounting
- Professional Writing & Speaking
- Economic Analysis
- Statistics for IT Managers
- Decision Making Under Uncertainty
- Organizational Design & Implmt.

Capstone/Experiential Learning
- Digital Transformation
- Information Systems Project
- Summer Internship*

REQUIRED: 102 units core, 30 units capstone
ELECTIVES: 48 units general electives
MISM Specializations

MISM students may choose to specialize (or not)

- Electronic Commerce
- Business Intelligence
- Healthcare Informatics
- Information Security Management
- IT Strategy & Management
MISM Concentration: Business Intelligence & Data Analytics (BIDA)

Core Courses
- Data Mining*
- Applied Econometrics
- Data Warehousing*
- Advanced Business Analytics
- Applied Data Science*
- Data Analytics Capstone Project

Business Electives
- Marketing Digital Media
- IT Business Leadership
- Measuring Social
- Privacy in the Digital Age
- Data Analysis for Managers

Analytic Electives
- Text Analytics
- Measuring Causal Effects
- Large-Scale Data Analysis
- Business Process Modeling
- Python for Developers
MISM: Sample Electives

- IT Global Sourcing
- Measuring Social
- Negotiations
- Linux & Open Source
- IT Project Management
- Business Process Modeling
- Health Care Information Systems
- Management Consulting
- E-commerce Technologies
MISM Career Data
(May 2015 – Traditional 12 month)

High Salary = $136,000
Low Salary = $55,000
Mean Salary = $93,120
Median Salary = $92,250

### Employers

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Employers</th>
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<tbody>
<tr>
<td>Project Manager</td>
<td>Amazon</td>
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<tr>
<td>Consultant</td>
<td>Barclays</td>
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<tr>
<td>Advisory Staff</td>
<td>McKinsey &amp; Company</td>
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<tr>
<td>Senior Data Analyst</td>
<td>Mylan</td>
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<tr>
<td>Associate Product Manager</td>
<td>Oracle</td>
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<tr>
<td>Business Application Dev</td>
<td>PwC</td>
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<td>Business Systems Analyst</td>
<td>SanDisk</td>
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<td>Google</td>
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<td>TrueCar</td>
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### Job Title

- Project Manager
- Consultant
- Advisory Staff
- Senior Data Analyst
- Associate Product Manager
- Business Application Dev
- Business Systems Analyst
- Technology Consultant
- Database Developer
- Lead Business Analyst
- Product Quality Engineer
- Senior Applications Engineer
- Senior Associate, IT Risk
- Senior Consultant
- Senior Database Architect
- Senior Software Engineer
- Software Developer
- Software Engineer
- Technical Project Manager II
- Technology Associate
- Risk Associate
MISM Career Data
(May 2015 – Global 21 month)

High Salary = $126,000
Low Salary = $63,500
Mean Salary = $95,700
Median Salary = $100,000

Employers
Adobe
Amazon
Credit Suisse
Deloitte
Ericsson
E&Y
Google
LinkedIn
Oracle
PwC
Snapchat
The Home Depot
Visa
Zazzle

Job Title
Business Technology Analyst
Experienced Associate
Product Management Analyst
Application Engineer
Quality Engineer
Consultant
Software Developer
Sr. Software Engineer
Software Development Engineer
Technical Staff
Technology Analyst
Technology Consulting Associate
MISM Career Data

(December 2014 – Traditional 16 month)

Employers

Adobe Systems Inc.
Amazon
Bank of America
Barclays
Bombardier
Credit Suisse
Deloitte and Touche LLP
EA
eBay
Google
Groupon
Informatica
Yahoo
VMware
UBS
Sears Holding
Salesforce.com
Oracle
NVIDIA
Nike
Morgan Stanley
MicroStrategy
LinkedIn
Intuit

High Salary = $ 150,000
Low Salary = $ 33,600
Mean Salary = $ 92,675
Median Salary = $ 93,500

Job Title

Application Engineer
Associate Database Engineer
Business Analyst
Business Intelligence Engineer
Research Associate
Computer Scientist
Consultant

Product Analyst
Product Manager
Program Manager
Senior Associate
Senior Consultant
Software Development Engineer
Software Engineer

Software Engineer II
System Software Engineer
Technical Associate
Technical Program Manager
Technology Consultant
Technology Integration Specialist
Technology Officer

Carnegie Mellon University Heinz College
MISM Career Data

(December 2014 – BIDA 16 month)

High Salary = $130,000
Low Salary = $66,000
Mean Salary = $102,292
Median Salary = $100,000

Employers

Airbnb
Amazon
Cognizant
Deloitte
Google
IBM
IBM Watson
Informatica
JPMorgan Chase
Microsoft
Moody’s
PwC
Slalom Consulting
Zillow

Job Title

Data Scientist
Senior Associate
Cognitive Software Engineer
Consultant
Data Scientist
Senior Consultant
Program Manager
Software Development Engineer
Software Engineer
Data Analyst – Web Analytics

Carnegie Mellon University
Heinz College
Preparing graduates for intelligent action

Carnegie Mellon University

Heinz College

School of Information Systems & Management (ISM)

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