Welcome to our Online Session

Information Systems (MISM)
Information Security Policy (MSISPM)

October 2016

• Sean Beggs, Director of MISM Program
• Randy Trzeciak, Director of MSISPM Program
• Amy Seymour, Associate Director of Admissions
• Bridget Jakub, Associate Director of Admissions
• David Danenberg, Assistant Director of Admissions
• Lanae Meyer, Admissions Coordinator
• Stamatis Marinos, Admissions Coordinator
• Brian McGrath, Admissions Coordinator
The GoToWebinar Attendee View
How to Participate Today

• Open and close your Panel
• View, Select, and Test your audio
• Submit text questions
  • Please ask each question only one time
  • We will respond as quickly as possible
• Recording of today’s Presentation and presentation slides will be posted online
Agenda

• Carnegie Mellon University & Heinz College
• Degree Programs Overview
• Admissions & Scholarships
• Next Steps
About Carnegie Mellon and Heinz College...

- 12,000 students at CMU
- 1,500 students at Heinz College
- Interdisciplinary strengths
  - Computer science and engineering
  - Management and policy
  - Data analytics
  - Visual and Performing Arts

Carnegie Mellon University
Pittsburgh, Pennsylvania
The Heinz College

School of Public Policy & Management
- Master of Arts Management
- Master of Entertainment Industry Management
- MS in Biotechnology and Management
- MS in Health Care Policy and Management
- MS in Public Policy and Management
- Master of Public Management

School of Information Systems & Management
- Master of Information Systems Management
- Master of Science in Information Security Policy and Management
- Master of Science in Information Technology

CMU Australia
- Master of Information Systems, Global
- Master of Science in Information Technology
- Master of Science in Public Policy and Management
Master of Information Systems Management

Sean Beggs
MISM Program Director
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 management/business skills
MISM Curriculum

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

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

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

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

* indicates a marked asterisk to denote a special focus or requirement
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
- Machine Learning for Problem Solving*
- Applied Econometrics I
- Data Warehousing*
- Advanced Business Analytics
- 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
- Product Management in IT
- Negotiation
- Linux & Open Source
- IT Project Management
- Cloud Computing for Business
- Health Care Information Systems
- Management Consulting
- Business Intelligence & Data Mining SAS
# MISM Career Data

(May 2016 – **Traditional 12 month**)

<table>
<thead>
<tr>
<th>Salary Level</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Salary</td>
<td>$130,000</td>
</tr>
<tr>
<td>Low Salary</td>
<td>$70,000</td>
</tr>
<tr>
<td>Mean Salary</td>
<td>$102,416</td>
</tr>
<tr>
<td>Median Salary</td>
<td>$100,000</td>
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</tbody>
</table>

## Employers
- Amazon
- Cisco
- DataSpark
- Deloitte
- E&Y
- Google
- IBM
- JPMorgan Chase
- McKinsey & Company
- Morgan Stanley
- Oracle
- PwC
- Salesforce
- SDLC Partners
- Twitter
- Uber

## 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 Manager
- 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 2016 – Global 21 month)

- **High Salary** = $130,000
- **Low Salary** = $70,000
- **Mean Salary** = $103,860
- **Median Salary** = $105,000

### Employers
- Adobe
- Amazon
- Credit Suisse
- Deloitte
- E&Y
- Facebook
- General Motors
- Google
- Hilti
- Oracle
- Salesforce
- TripAdvisor
- Twitter
- Visa
- Yahoo

### Job Title
- Business Technology Analyst
- Associate Consultant
- Product Management Analyst
- Application Engineer
- Quality Engineer
- Consultant
- Software Developer
- Sr. Software Engineer
- Software Development Engineer
- Technical Consultant
- Technology Analyst
- Data Scientist
MISM Career Data

(December 2015 – Traditional 16 month)

Employers

High Salary = $ 125,000
Low Salary = $ 60,000
Mean Salary = $ 96,186
Median Salary = $ 100,000

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

Amazon
Apple
Bank of America  Barclays
Blackrock
Credit Suisse
DeloitTe and Touche LLP EA
eBay
Google
Hilti
IBM
Linkedln
Microsoft
Morgan Stanley
Oracle
Priceline.com
PwC
Salesforce.com
TrueLearn
Uber
Visa

Software Engineer II
System Software Engineer
Technical Associate
Technical Program Manager
Technology Consultant
Technology Integration Specialist
Technology Officer
MISM Career Data
(December 2015 – BIDA 16 month)

High Salary = $125,000
Low Salary = $70,720
Mean Salary = $98,846
Median Salary = $100,000

Employers
Adobe
Amazon
Comcast
Deloitte
IBM
Moody's Analytics
Pfizer
PwC
Salesforce
US Army
VISA

Job Title
Data Scientist
Senior Associate
Cognitive Software Engineer
Consultant
Data Analyst – Web Analytics
Senior Consultant
Financial Engineer
Software Development Engineer
Software Engineer
Preparing graduates for intelligent action

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Master of Science in Security Policy and Management

Randy Trzeciak
MSISPM Program Director
MSISPM

Master of Science in Information Security Policy & Management

‘A passion for Information Assurance’
Master of Science in Information Security Policy & Management (MSISPM)

- Full-time, 3-4 semesters in length, 192 units
- Students have a great deal of flexibility to follow a technical or managerial/policy path
- Significant teaching and meta-curricular activities with SEI/CERT
- Government or Consulting career placement opportunities
- Qualifies for Scholarship for Service
Units

• Carnegie Mellon uses units, not credits
  – Semester long courses are 12 units
  – Many courses are offered as minis
    • ½ semester in length and are 6 units
  – A 12 unit course and a 6 unit course on average entails 12 hours of work per week, including lecture
MSISPM 192 Unit Overview

- Core, 114
- Security Electives, 30
- Project, 24
- General Electives, 24
# MSISPM Curriculum

**REQUIRED:** 114 units core, 24 units capstone  
**ELECTIVES:** 30 units security focus, 24 units general

## Security Core
- Intro to Info Security Management
- Info Security Risk Management
- Cryptography
- Software and Security
- Network and Internet Security
- Privacy in the Digital Age
- Info Security Compliance & Training
- Info Security Policy & Governance

## Management Core
- Accounting & Finance Foundations
- Managing Disruptive Technologies
- Organizational Design & Implementation
- Economic Analysis
- Statistics for IT Managers
- Decision Making Under Uncertainty
- Professional Writing and Speaking

## Capstone/Experiential Learning
- Information Security Project or Thesis
- Summer Internship
MSISPM Sample Electives

- Healthcare Information Security
- Network Situational Awareness
- Applied Information Assurance
- Service Oriented Architecture
- Network Security Analysis
- Network Defenses
- Negotiating
- Introduction to Cyber Intelligence
- Ethical Penetration Testing
- Data Mining
- Relational / NoSQL Database Management
Why CMU – HEINZ – MSISPM Degree?

- *Independent Study with CMU Faculty*
- *Access to Courses in SCS, CIT, Tepper*
- *Access to CERT faculty, internships, jobs*
- There is a significant shortage of IT professionals in the United States
- School of ISM: Distinct teaching approach of combining IT excellence with best business practices
High Salary = $130,000
Mean Salary = $89,023
Low Salary = $70,000
Median Salary = 85,000

Employment by Region (US only)

Employers
- Acquia
- Amazon
- Deloitte & Touche
- Dept. of Defense \ US Government
- GM
- Lockheed Martin
- MITRE
- PwC
- Sandia National Laboratories
- Saudi Aramco

Job Title
- Information Security Analyst
- Technical Program Manager
- Security Consultant \ Engineer
- Information Security Professional
- Cyber Intelligence Analyst
- Security \ Systems Analyst
- Cyber Security Engineer
Preparing graduates for intelligent action

Carnegie Mellon University
Heinz College

School of Information Systems & Management (ISM)

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Admissions & Scholarships
Apply online by January 10 deadline

- Official transcripts (USA) / Official Transcript Evaluations (International)
- Two (2) letters of recommendation
- Resume
- Written Essay
- Video Essay or Video Interview (optional, recommended)
- Optional Essay
- Official GRE or GMAT scores
- Official TOEFL or IELTS scores (non-native English speakers)
Characteristics of Successful Applicants

- Commitment, leadership
- Clearly defined goals for graduate education
- Relevant experience and education
- Competitive test scores
- Demonstrated potential for academic success
Scholarship Opportunities

*No separate application required for scholarships*

- Merit-based scholarships
- Women in Technology Fellowship (MISM)
- For US Citizens:
  - American Security Professionals Fellowship (MSISPM)
  - Scholarship for Service (MSISPM)
  - American Technology Fellowship (MISM)
  - Yellow Ribbon Program/Veterans Benefits
- Organizational Strategic Partner scholarships
Thank you for joining us today

We will continue to answer questions until 1:00pm

Please send unanswered questions to:
hnzadmit@andrew.cmu.edu
+1. 412.268.2164
Want to learn more about us?

- Individualized visits to our campus
- Fall Visitation weekend
  November 11-12, 2016
- Online information sessions
  - Student Panel sessions upcoming
  - Recorded webinars available now