The Management Information Systems (MIS) graduate will have a rewarding and value-added career integrating information technology, data analytics and organizational processes to meet the strategic needs of their business. The MIS professional role can span from developing critical information systems, using analytics and data science techniques to help the organization operate more effectively and efficiently, and/or creating a secure infrastructure through the application of state-of-the-art cyber security tools.

**TECHNICAL SKILLS:**
- Design and develop information systems
- Project management
- Problem solving with technology
- Problem solving with data & analytics
- Security hacking
- Data and analytics visualization
- Effective enhancement through technology

**POSSIBLE INDUSTRIES**
- Corporate industries: Energy, Manufacturing, Healthcare, Agriculture, Gaming, Retail, Transportation & Logistics
- Computer Technology
- Consulting
- Cyber Security
- Network Technology
- Software as a Service (SaaS)

**CAREER COMPETENCIES:**
- Tech savvy
- Strategic mindset
- Drives results
- Resiliency
- Manages complexity
- Cultivates innovation
- Self-development

**DAY IN THE LIFE**
- Most work will be independent with some team interaction
- Many tasks will include detailed analysis to identify system issues and solutions
- Create test scripts and conduct thorough testing procedures
- Determine how to drive the business forward with technology, data troubleshooting and diagnose client issues
- Conduct data collection and analysis
- Gather client needs through frequent meetings and customer interactions
- May work with sales, marketing and other departments regularly
- Mix of doing the work, and communicating customer needs to other developers
- May help facilitate testing procedures with clients

**WORK ENVIRONMENT:**
- Office setting
- Opportunities to work remotely
- Opportunities for flexible scheduling

**SAMPLE ENTRY LEVEL JOB TITLES**
- Analytics Manager
- Applications Engineer
- Data Analyst
- Database Administrator
- Forensic Data Analyst
- Information Assurance Analyst
- IT Business Analyst
- IT Consultant
- IT Project Manager

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- Consulting
- Cyber Security
- Network Technology
- Software as a Service (SaaS)

**MSIS CAREER PROGRESSIONS**

**ENTRY LEVEL MSIS PROFESSIONALS**
- SYSTEMS ANALYST I
  - $59,290 ($57,408)
- INFORMATION SECURITY ANALYST I
  - $57,307 ($56,462)

**JUNIOR LEVEL MSIS PROFESSIONALS**
- SYSTEMS ANALYST II
  - $70,573 ($74,526)
- INFORMATION SECURITY ANALYST II
  - $72,204 ($75,619)

**SENIOR LEVEL MSIS PROFESSIONALS**
- SYSTEMS ANALYST III
  - $86,595 ($91,316)
- INFORMATION SECURITY ANALYST III
  - $93,759 ($98,871)

**SUBJECT MATTER EXPERT CAREER PATH**
- SYSTEM ANALYST IV
  - $104,031 ($109,703)
- INFORMATION SECURITY ANALYST IV
  - $107,901 ($115,901)

**MANAGEMENT CAREER PATH**
- INFORMATION TECHNOLOGY SUPERVISOR
  - $97,791 ($103,123)
- INFORMATION TECHNOLOGY MANAGER
  - $115,901 ($122,220)
- INFORMATION TECHNOLOGY DIRECTOR
  - $165,399 ($174,417)

**SAMPLE ENTRY LEVEL JOB TITLES**
- IT Security Analyst
- IT Training Specialist
- Mobile Application Developer
- Programmer Analyst
- Systems Analyst
- Software Developer
- User Interface Designer
- Web Content Manager

Salary data pulled in January 2020 from salary.com using Oklahoma City averages and national averages in parenthesis.
MANAGEMENT INFORMATION SYSTEMS

POTENTIAL EMPLOYER SAMPLE
AAON Inc
American Airlines
Apex Systems
BNFS
BOK Financial
Boeing
Bridgeway Testing, LLC
capSpire
Cerner
Charles Machine Works
Chesapeake Energy
Cimarex Energy Co.
Cisoshare
ConocoPhillips
Credera
Crosby
Deloitte
Devin Energy
DirectTV
Ditch Witch
Evolvation Controls
Enterprise
Ernst & Young
ExxonMobil
Information Services
FIS global
FlightSafety International
Gateway Mortgage
Global Client Solutions
Google
Grant-Thornton
Helmerich & Payne
Hilti
Hobby Lobby
Hogan Taylor
Hostbridge
InterWorks
Koch Industries/Flint Hills
L3 Communications
Microsoft
Mitretech
Noble Energy
OnCue
OneGas
ONEOK
ORIS Nasco
Osage Nation
Paycom
PDL Productions, LLC
Phillips 66
PriceWaterhouseCooper
Proagrica
Quorum
Seagate
Sonic
Stinnett & Associates
SAS Enterprises
Spectro
TD Ameritrade
Texas Instruments
Therapitas
T-Mobile
USAA
Vizient, Inc.
Walmart
Williams
Woot, Inc.

PROFESSIONAL ORGANIZATIONS
Association of Information Technology Professionals
https://www.aitp.org/
Association of Software Professionals
https://asp-software.org/
Computer Technology Industry Association
https://www.comptia.org/
Found at:
https://jobstars.com/it-professional-associations-organizations/

STUDENT/OKLAHOMA STATE UNIVERSITY ORGANIZATIONS
OSU Information Security and Assurance Club (ISAC)
https://campuslink.okstate.edu/organization/osu-information-security-and-assurance-club
Association of Information Technology Professionals (AITP)
http://www.orgs.okstate.edu/aitp/

JOB RESOURCES
Bureau of Labor Statistics
https://www.bls.gov
CNN Money
https://money.cnn.com
Mercer
https://www.mercer.com
Tech Jobs
dice.com
Simply Hired
simplyhired.com
I Crunch DA
crunchdata.com
Computerworld
computerworld.com

CAREER RESOURCES FOR MSIS
Job Search Key Terms:
Cyber Security
Data Analytics
Information Technology Management Information Systems MIS (Careers)
Technical Support

CNN MONEY REPORTS GROWTH RATES FOR THESE MIS CAREER PATHS:
• Systems Analyst (25%)
• Information Assurance Analyst (37%)
• IT Security Consultant (37%)

Increase in hiring projected for the Class of 2019 over Class of 2018
NACE's Job Outlook 2019 survey.