

Professional Practice/Internship Expectations for Specific Major/Sequence

The Professional Practice/Internship in the School of Information Technology consists of supervised work experience arranged by the student and approved by the School. Work sites may be found on-campus, in the Bloomington/Normal area, at other locations in Illinois or out-of-state. The Professional Practice program offers the student an opportunity to integrate classroom study with a learning experience in a work environment related to information technology. This work experience benefits the student by providing documented work experience for the resume, providing supplemental income and allowing the student to experience work in his/her chosen field of study. It is intended that as a student completes his/her studies, the “real world” perspective gained from the Professional Practice/Internship experience will provide valuable insight into academic pursuits that will enhance the quality of the academic experience. In order to achieve the goals of the Professional Practice/Internship experience, the Professional Practice/Internship experience must be closely related to the student’s academic program and anticipated career choice.

Following is a list of duties/activities that School of Information Technology faculty have identified as preferred duties/activities to provide a quality professional practice/internship experience that is relevant and beneficial for IT students in each of our degree/sequence programs. This list is not intended to be all-inclusive. It is intended as a guide to provide students and employers a point of reference indicating the level of professional experience the school expects in the professional practice/internship experience.

For additional Professional Practice/Internship information contact:

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Bachelor's Degree in Computer Science

- General Computer Science sequence

Application development
Systems programming
All phases of software development life cycle

- Enterprise Computing Engineering sequence

Application development	System performance tuning
Application testing	Systems programming
Note: Emphasis on mainframe environment	

Bachelor's Degree in Information Systems

- Information Assurance and Security Sequence

Event monitoring	Network configuration & maintenance
Log analysis	Windows AD
Configuration management	Security research
Forensics	Access and identity management
Security testing	

- Systems Development/Analyst Sequence

Business process analysis
Database administration
Data center monitoring
Application development

Linux administration
Windows administration
Testing
System support – mainframe
Application support - mainframe

- Web Application Development sequence

Development of web based applications
Development of mobile device applications

- Enterprise Computing Systems sequence

System administration
Application development
Note: Emphasis on mainframe environment

Mainframe data center performance tuning
Clustered data center tuning

Bachelor's Degree in Telecommunications Management

Network design
Daily monitoring & operations
Performance monitoring
Performance enhancement
Security monitoring & system design

System (Unix, Win, Linux) admin
Elevated support
User administration
Socket programming
Web, Video, Voice administration

Note: Only limited router/switch programming. Minimal or no “wire pulling”

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