

What can you do with a degree in AIT?

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AIT Major Program

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The information below will provide you with a general idea of an advanced degree path in information technology.

Masters in Information Technology: Masters Degrees in Information Technology typically focus on the design of technological information systems, including computing systems, as solutions to business and research data and communications support needs. Very often this degree progression will include instruction in the principles of computer hardware and software components, algorithms, databases, telecommunications, user tactics, application testing, and human interface design. Individuals in a Master's program typically acquire an in-depth knowledge of emerging security threats and solutions to ensure that networks and computer systems are secure. They may be responsible for developing information security and disaster recovery plans that proactively protect the enterprise.

PhD in Information Technology: A PhD Program in Information Technology may focus on the design of technological information systems, including computing systems, as solutions to business and research data and communications support needs. Specialization areas are designed for individuals of this advanced degree who want to move into a high-demand technology arena in education, business or government. Contemporary theories and practices that today's organizations are using to gain a strategic advantage through the deployment of information technology is researched in depth. Learners develop the process skills and subject matter knowledge needed to excel as scholar-practitioners and leaders in this growing field.

Careers

There are several careers within the Applied Information Technology realm that you may like to consider.

IT Business Relationship Managers work as liaisons between

managing the relationship between the business-functions and end-users of a company and the information technology department. This is an up-and-coming position in the fast-paced career field of IT. The Business Relationship Manager, typically, represents IT in decisions involving all levels of business decision making - both tactical and strategic that have end-user or business function implication. The IT Business Relationship Manager helps the business-end define requirements for IT projects and deliverables. Of particular importance in this growing position is providing a single strong point of contact between end-users and IT. *Salary range: \$30-60K

Technical and/or Documentation Writers prepare instruction manuals, technical reports, and other scientific, technical, or government required documents. Most technical and/or writers work for computer software firms, government agencies, or research institutions. As new technology continues to develop and expand, the need for individuals in this area who can communicate technical expertise to others is expected to increase. *Salary range: \$40-60K

Software Engineers analyze users' needs and test application software for use-ability and functionality. Extensive knowledge not only in technology but also in specialized functional area is required. *Salary range: \$50-85K

Security Engineers design and maintain computer network and Internet environments that use cryptography (science of disguising and revealing encrypted information - keeping intercepted information private). *Salary range: \$60-85K

Cryptographers design systems, break systems, and perform research on encryption. Cryptographers must have broad experience in both mathematics and information technology science. *Salary range: \$60-85K

Information Systems Managers support the work of programmers, computer specialists, systems analysts, and other technology professionals. These individuals consult with management, staff, and customers to achieve goals. *Salary range: \$60-100K

Database Administrators use database management software to determine the most efficient ways to organize and access an entity's data. Salary range: \$35-75K

Systems Analysts plan and design new systems or reorganize a company's technology resources to best utilize them. *Salary range: \$35-70K

Webmasters develop and maintain web sites and resources. Knowledge of common programming languages and web development software required. *Salary range: \$45-70K

Technology Trainers instruct new users on the latest software or hardware. Experience with the latest software and/or hardware is essential. *Salary range: \$35-50K

Desktop Publishers use computers to format and create publication-ready material. Good communication skills and artistic ability. *Salary

range: \$20-40K

Technology Support Specialists provide technical support to customers and other end-users. Employers seek individuals with good analytical and communication skills. *Salary range: \$25-50K

**Salary ranges are general and extrapolated from numerous sources and not an agreement or warranty of industry offer upon employment.*

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