

# FOCUS

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## INFORMATION TECHNOLOGY

### What is Information Technology?

**Information technology (IT)** is the application of computers and telecommunications equipment to store, retrieve, transmit and manipulate data, often in the context of a business or other enterprise.

This refers to anything related to computing technology, such as networking, hardware, software, the Internet, or the people that work with these technologies. Many companies now have IT departments for managing the computers, networks, and other technical areas of their businesses. IT jobs include computer programming, network administration, computer engineering, Web development, technical support, and many other related occupations.

### What can I do here?

**Lead applications developer** -- Manage software development teams in the design, development, coding, testing and debugging of applications.

**Applications architect** -- Design components of applications, including interface, middleware and infrastructure; comply with employer's design standards.

**Messaging administrator** --What they do: Control e-mail and groupware systems, including associated servers, operating systems, and backup and recovery programs; fix system problems and attend to service requests.

**Data modeler** --Analyze organizational data requirements and create models of data flow..

**Network manager** -- Direct day-to-day operations and maintenance of the firm's networking technology; collaborate with network engineers, architects and other team members on the implementation, testing, deployment and integration of network systems.

**Senior IT auditor** -- Establish procedures for audit review of computer systems; develop and apply testing and evaluation plans for IT systems and ensure compliance with industry standards of efficiency, accuracy and security.

**Senior Web developer**-- Plan and implement Web-based applications; coordinate with product development, marketing, product management and other teams in bringing new applications online.

**Business intelligence analyst**-- Design and develop company data analysis and report solutions; review and analyze data from internal and external resources; communicate analysis results and make recommendations to senior management.

Help desk -- Resolve difficult issues that derive from Tier 1 support and require five to 15 minutes to settle; decide when to create work tickets for issues that can't be solved by phone or e-mail and require a visit to the user's workspace.

Staff consultant-- Assist with project planning and requirement specifications; create prototypes and alternatives with colleagues.

### How do I get in?

Bachelor's degree in computer science, computer information systems IT or mathematics or a related field, plus a minimum of three to five years experience in specific technologies.

A degree in computer science can be expected to concentrate on the scientific aspects of computing, while a degree in information technology can be expected to concentrate on the business and communication applications of computing.

### How do I find out more?

#### Professional Associations

**Association of Information Technology Professionals**-- [www.aitp.org/](http://www.aitp.org/)

The Institution of Engineering Technology -- <http://www.theiet.org/>

Association of Computer Professionals-- <http://www.acpexamboard.com/>

The Chartered Institute for IT -- <http://www.bcs.org>

The Institute for Management Information Systems - <http://www.imis.org.uk/>

#### Top Companies

Samsung Electronics, Apple, HP, Foxconn, Dell, IBM, Microsoft, Panasonic

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13 Prince of Wales Terrace, W8 5PG – Tel. 020 7937 7799