

A

Jobs in computing

Most ICT-related jobs have developed to meet the need to analyze, design, develop, manage or support computer software, hardware or networks.

All the people involved in the different stages of development of a computer project, i.e. analysts, programmers, support specialists, etc. are controlled by a **project manager**.

ANALYZE

A **database analyst** is in charge of the research and development of databases; **network analysts** study the network requirements and recommend the most suitable type of network; **systems analysts** decide what ICT system will cater for the requirements of a specific institution.

DESIGN AND DEVELOP

Web designers, also called **webmasters**, create and maintain web pages and web applications for websites.

Software engineers, either application programmers or systems programmers, plan, design, and test computer programs.

Hardware engineers design and develop ICT devices.

Security specialists specialize in the design of software and hardware to protect information from malware: viruses, spyware, etc.

MANAGE

Network or computer systems administrators install and maintain networks.

Database administrators manage the accuracy and efficiency of databases.

SUPPORT

Computer operators control computer data processing.

Help desk technicians are in charge of troubleshooting, the solution of technical problems.

Computer training instructors or trainers teach people how to use hardware and software.

Technical writers write the instructions for ICT systems.



A computer operator is in charge of computer data input and processing

READ B SECTION - DO 1 2 AND 4

B

Computers and jobs: new ways, new profiles

With the development of ICT, there has been a change in the way lots of jobs are done.

*I've become a **teleworker**, a person who can work at home, thanks to **teleworking** or **telecommuting**, so I can work away from my official workplace. High-speed communications have made it possible.*

*I'm training to work as an **online teacher**. I want to be a specialist in e-learning, distance education via the Internet.*

MAQUETADOR
*I started my career as a **typesetter**. Now I work as a **desktop publisher**. I create documents with DTP software.*

*I like this new aspect of my job: I practise **telemedicine** - it's like having a long-distance surgery. Real-time data transmissions and virtual operations enable me to cure people who are far away.*

*ICT has made my job much better and easier. Now I like to call myself a **computer animator**: with my computer I create cartoons I couldn't think of before.*

- 18.1 Classify these jobs under the heading that best describes their function. They all appear in A opposite.

software engineer trainer hardware engineer	help desk technician network analyst network administrator	database administrator systems analyst
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ANALYZE	DESIGN/DEVELOP	MANAGE	SUPPORT
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a b c d e f g h

- 18.2 Draw lines between the columns to make true sentences about jobs in A opposite.

A technical designer	controls all the operations and people in a project.
A project writer	writes documentation of a program or device.
A web specialist	plans and keeps websites updated.
A security manager	designs applications against viruses.

- 18.3 What jobs in A opposite are being offered in these advertisements?

We are seeking a person to operate peripheral computer equipment, and perform report distribution duties and backup procedures on our servers.

Major Responsibilities

- Operating printers and unloading reports from the printer and distributing them through the internal mail system
- Performing backups on various operating systems
- Analysing and troubleshooting problems in the Data Centre reported by Help Desks or IT support associates

The successful candidate will be responsible for maintaining logical and physical database models as well as managing the database.

Job Requirements

- Bachelor's degree in Computer Science, a related field or equivalent experience
- Analytical skills and a proficiency in developing structured logic

- 18.4 Complete the text with words from B opposite.

The use of ICT has caused the development of new ways of working. People no longer need to be stuck in an office. Laptops, the Internet and wireless technologies allow (1) What's more, there are more and more people who have decided to become (2) and so have no need to travel to work at all. The Internet has also enabled doctors to practise (3) and educators to work as (4) ICT technologies have introduced changes in the artistic world, too. Cartoons are now made by (5) and (6) produce materials ready for publication. computer animators Desktop Publishers

You and computers



- 1 How have computers changed the way you work or study?
- 2 Make a list of the advantages and disadvantages that teleworking might have for you.