# **The Choice For A Lifetime**

## Analysts

Before starting on any job, it is as well to look closely at the objectives and the resources available The **Systems Analyst** has the task of interviewing users, to determine their needs, to match these needs with resources, and suggest a method of solving the problem. In order to evolve a system of working for other people, the

Analyst must be a logical thinker with good communications skills and a spark of creativity. He is often the DP department's salesperson, sc must always make a favourable impression on his 'customers' — the computer users in the company.

## Programmers

The Programmer takes the broad strategy worked out by



the Analyst and converts it, first into a tactical plan. breaking the job down into manageable segments, and then into code that the computer can recognise and interpret. Applications Programmers

are concerned with writing programs to do specific jobs, while

Systems Programmers are more involved with the overal

performance of the data processing system. Applications Programmers tend to work in isolation, even though they may be part of a project team For them, the ability to



Programmers need that too, but also a caim outlook. 'If you can keep your head when all about you are losing theirs...' then perhaps you have the makings of a Systems Programmer. Like any other part of a modern corporation, the computer department is organised along hierarchical lines. At its head is the **Data Processing Manager**, who is responsible for all the many and varied tasks that fall under the main heading of information processing.

All computer professionals are firstly technicians, and acquire management skills as they progress up through the ranks. The three main areas of specialisation are computer operations, programming, and systems analysis, and there is an element of mobility between specialisations in the promotion path.

In common with the other professions, it is worth entering the field as well qualified as possible.

While it may not appear to make too much difference at the beginning, a less qualified person will soon find the path barred. It's much more difficult to get a university degree while doing a full time job! Additionally, organisations like

But as well as walking

miles in a shift with

disk packs, tapes or boxes of paper the

importance of the jobs

being run on the

operator must be fully conversant with the computer's operating system, and with the relative

## Operators

Physically, the most demanding of all jobs in the industry is operating a large multi- programming/multi-user computer.



machine at any one time. A Senior Operator will be called on to make decisions affecting the work of many other parts of the company's business by allowing or derying access to the computer system. tionally, organisations like the British Computer Society now offer professionally-

Development Engineers Though the time may come

when computers themselves develop the

part technician. It is his job to take advantage of new

discoveries and theoretical developments to improve

and enhance the performance of a given piece of equipment.

qualified is likely to have spent five or more years at university.

Often, the only chance an Operator

Doctorates abound in this field where even the least well

**Field Engineers** 

has to relax is when

the computer develops

a fault, and a Field

Given the modern

diagnose its own

failings, and the

almost universal

construction, the

engineer's job has

become somewhat simplified.

but a field engineer must still be

competent in digital electronics. He must

also be a skilled mechanic capable of

working to finer tolerances than the average

watchmaker. To enter the field, a degree level

qualification is usually required.

adoption of modular

computer's ability to

Engineer has to be called in to fix it. new generation of

machines, it's in the

brain of the Development

Engineer that this process

of innovation takes place

engineer is part scientist,

now. The development

TONY SLEEP

now offer professionallyrecognised qualifications, usually by examination, and for an aspiring programmer or analyst these are a good indicator of standing within the industry.

> Least demanding of all, intellectually, is the **Data Entry**

Operator's job. The skills required here are much the same as those needed by a copy typist — speed and accuracy. At worst the task is boring and repetitious,



but in many small installations this is offset by the opportunity to become involved in other aspects of the computer department's activities.

#### Operators in smaller installations are often called cn

to help programmers and engineers diagnose faults, as well as simply running the job at hand. Most important, though, is a thorough knowledge of the program's operating method. 'Userfriendly' software makes the operator's job easier, and a well prompted' program can be run by relatively inexperienced staff with little loss of efficiency.

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