Higher Technician Diploma Computer Science and Network Processing

Overview

Definition

The higher technician in digital systems, option computer science and network processing, develops and exploits desk-applications and computing systems, organized in networks or not, intended for production processes of capital goods and technical services.

The technician will principally practice the professional activities within a team, either in companies providing industrial data processing services, or in companies using or manufacturing computerized equipment. The concerned tasks are therefore linked to functions of solution development concerning computer science and network processing for industry and technical services, but also to services of installation, processing, maintenance and renovation of installations, centralized and organized in networks.

Professional Context

The main types of task involved can include:

- Development of computing systems, for hardware as well as for software, mainly with implementation of « object-oriented » languages
- Running of computing network systems
- Maintenance, remote or not, and technical assistance to users,
- Commercial activities

Intended future Employment

The higher technician may practice his profession within his company or at the customer's home.

For instance : technician in a design office, desk-application developer , systems and networks integrator, computing systems installer, technical support manager, maintenance technician, sales engineer, trainer, etc.

Diploma

The BTS (Brevet de Technicien Supérieur) is a French national degree which is at the same level as the German Fachhochschuldiplom, English Foundation Degree, American Associate Degree, or A Level +2.

International Internship

Presentation

Each student must have a mandatory internship in an IT department to complement and enhance their perception of the workplace and problems associated with performing the job, between the first and the second year of the qualification: That period mustn't be less than 6 weeks, and is usually between 7 or 8 weeks when carried-out abroad. For the students, the main goal of that work placement is to discover the "real" world of companies with their constraints in the ITC field.

As it is placed at the end of the first academic year: they are still students and are not as proficient as they should be by the end of the studies.

Goal

Discovering an IT department in a company; Relations to customers and colleagues; Constraints of team work as much as possible; Having a better perception of work environment.

Skills and Jobs

At the time of the work placement, each student has some basic skills in Java, C# and Html/Css/Php/Mysql and also Web-design using CMS tools like Joomla!. They are able to work in different areas like application or library/module development; helps in localization of software; systems installation and setup; web-design; ... They also had some courses in using Cisco network material where they have to wire and setup VPN so they can apply in that area too.

Every year, students achieve a variety of other tasks, like installation and setup of Wi-Fi network, computer selling and repairing, web site design, and software modules development in various languages (C#, Php, Java ...): All these topics are covered in the first year of study.

Context

The students must not receive any salary during that work-experience period, because they are still students: They are insured by our school and they must pay all charges by themselves (Travel, Accommodation, Food ...); so the operation is costless for the company.

Constraint

Usually, due to the academic agenda, the work experience placement starts the last week of May, and will end by the beginning of July.

Contact

For any information, please contact:

Fabrice Foray, ICT Teacher
BTS Iris, Lycée Astier
Quartier Roqua
07200 Aubenas
France
Tel. +33 617506204
Email. fabrice.foray@ac-grenoble.fr