The **Centre Tecnològic de Telecomunicacions de Catalunya** is a supra-university research center established in Barcelona (Spain) which is devoted to basic and applied R&D related to the physical and lower layers of communications systems. Currently, the CTTC is interested in filling Engineering positions in communication technologies.

ENGINEERING POSITIONS:

We are looking for (1) **skilled engineers with previous work experience** in at least one of the fields listed below and, (2) **graduate engineers** with a solid academic record and willingness to develop a career in those areas.

- Optical Hardware engineer (Ref. 07/2007-01, 1 position): Design and verification of electronic hardware and firmware for optical circuits. Knowledge and experience in circuit design and test techniques, DSP and microcontroller firmware programming in C, FPGA programming in VHDL language.

  Preference will be given to candidates with experience in using optical components for communication systems (e.g, tunable lasers, optical modulators, etc.) in circuit packs. Other valued merits: hands-on experience on optical test & measurement instrumentation (e.g., digital signal analyzer, spectrum analyzer, etc.) and manipulation of optical fibers and connectors.

- Networking Software Engineer (Ref. 07/2007-02, 2 positions): System-level development on GNU/Linux with in-depth knowledge of TCP/IP networking, with emphasis in routing and signaling protocols. Programming experience in C or C++ (multi-threaded applications, inter-process communication, low level sockets) is required, and familiarity with GNU/Linux development tools.

  Other valued merits are: Knowledge in application-layer internet protocols, experience running application layer servers (Apache, etc.), knowledge of interpreted languages (Perl, bash scripting,…) and basic knowledge of GNU/Linux system administration and Cisco networks.

- IP Networking Software Engineer (Ref. 07/2007-03, 1 position): We are looking for one networking software engineer with emphasis in Linux (or Unix-like) Networking Architecture, from the kernel network device drivers up to the TCP/IP socket. Required skills: Unix-like open source operating system internals (networking protocol stack and device drivers) and network programming in C.

  Other valued merits are: UMTS protocols and signaling and/or VoIP (mainly SIP) and/or Linux development tools and/or C++ and/or Java and/or Basic knowledge of system administration.

QUALIFICATIONS AND EXPERIENCE

Applicants must hold an **MSc/Engineering degree** in telecommunications, electronics, computer science or related fields, capacity of carrying out innovative research independently. Experience in R&D or industrial projects carried out in the context of research institutions and centres is a plus.

CONDITIONS

The position is permanent. Profiles with different levels of work experience are sought. The rank and gross salary, in the range 22,000–25,000 €/year (graduate engineers) and 27,000–30,000 €/year (skilled engineers), will be determined according to qualifications and work experience.

Please, submit applications electronically including a **resume, academic ratings, list of publications** (if applicable) and, preferably, the names and contact information of **three referees**, to:

http://www.cttc.es/rrhh

The applications will be evaluated in batches every 3-4 months until the positions will be filled.

November' 07