



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. At present time, the CTTC is interested in filling the following *Research Associate* positions in communication technologies.

## RESEARCH ASSOCIATE POSITIONS:

- ❑ Access Technologies (1 position): The applicant should have a Ph.D. specializing in one of the following disciplines: MAC protocols and algorithms, radio resource management, communication theory, and information theory.
- ❑ Communication Subsystems (1 position): Experience in the design and implementation of radiofrequency circuits and systems. This includes (but is not limited to) knowledge in one or more topics out of the following list: microwave passive and active devices; antennas; device modelling and design, analysis and implementation of transceivers. Experience in MMIC and/or RF MEMS circuit design, implementation, test and measurement is highly appreciated.
- ❑ Optical Networking (1 position): GMPLS-based routing and signalling protocols for multi-layer (lambda, TDM, packets) and multi-domain networks, Traffic Engineering algorithms for provisioning, Protection/Restoration algorithms, ASON network architecture, ASON/GMPLS interworking, etc. Knowledge both in theoretical and experimental R&D is highly appreciated, in particular in ASON/GMPLS testbeds.
- ❑ Radio Communications (1 position): PhD in signal processing for communications, preferably with experience in any of these fields: multi-carrier systems, cooperative communications and/or signal processing for satellite communications. Other fields of signal processing for communications are also welcome, but good publication record in IEEE journals and int'l conferences is a must.

## QUALIFICATIONS AND EXPERIENCE

Applicants for Research Associate positions must hold a Ph.D. degree in telecommunications, electrical engineering, computer science, or related fields, capacity of carrying out innovative research as well as experience in research and publication record. Work experience in international and national R&D projects carried out in the context of R&D institutions is highly appreciated.

## CONDITIONS

The positions are permanent. The rank and salary, in the range 34,000 – 37,000 €/year (gross), will be determined according to qualifications and work experience.

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

<http://www.cttc.es/rrhh>

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