

## **NEW R&D PROFILES SOUGHT:**

As a result of the activity in on-going research projects, the following profiles in communication technologies area and Optical Networking area presently sought:

### **Communication Technologies area:**

Profile #01:

- Hardware engineer with signal processing skills and general knowledge of multi-antenna RF front-ends, digital down-converters and data acquisition platforms (storage units). Familiar with implementations of PC-based baseband WiMAX receivers using filter-bank and/or OFDM technologies.
- Contact person: Montse Najar ([montse.najar@cttc.es](mailto:montse.najar@cttc.es))

Profile #02:

- Design and development of a system-level simulation platform for wireless communication systems. Knowledge in object-oriented programming (C++), SystemC, basic knowledge in wireless network communication protocols, and layer 1-2 functionalities (radio resource management, multiple access schemes, etc.) of WiMAX or UMTS-LTE systems.
- Contact person: Carlos Bader ([carlos.bader@cttc.es](mailto:carlos.bader@cttc.es))

### **Optical Networking area:**

Profile #03:

- A senior software engineer, with a minimum of 4-5 years of experience in systems development in C and C++ languages. Knowledge of software development in POSIX, GNU/Linux environments is a must, including IPC mechanisms (BSD sockets, shared memory...) and POSIX threads. The applicant must have a good knowledge of networking in general, and TCP/IP protocols (including routing and signalling protocols) in particular. The applicant must have solid experience in medium to large software projects, involving client/server applications or network control and management applications and frameworks. Knowledge of the C GLIB or C++ Boost libraries, as well as previous experience working with or developing protocol stacks (e.g. Zebra, Quagga, XORP, NS2...), is highly appreciated.
- Contact person: Ramon Casellas ([ramon.casellas@cttc.es](mailto:ramon.casellas@cttc.es))

In all cases, applicants must hold an M.Sc. or engineering degree in communications, computer science, or related fields. Experience in R&D projects carried out in the context of research institutions is a plus.

These profiles are for temporary positions linked with on-going R&D and technology transfer projects.

For further details, please, send an e-mail to the contact persons listed above.

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