



Researcher position in the Geomatics Division – Geodesy and Navigation Department

Call 18/2017-1

REQUIREMENTS

The Geomatics Division of the CTTC is searching for interested candidates in a Researcher position in its Geodesy and Navigation Department (GEON). The GEON Department does research on static and kinematic positioning. The GEON department is active in the generation of acquired geo-data ready for interpretation both in their geometric and physical aspects. Activities of this Department include precise positioning and navigation with INS/GPS, INS/Galileo, LiDAR and imaging sensors; sensor orientation and calibration; kinematic INS/GPS gravimetry; etc. For more information about the Department, please refer to <http://geomatics.cttc.es/integrated-geodesy-and-navigation/>.

The candidate is expected to have a strong background in the following specialization areas of interest: multi-sensor navigation; data acquisition and processing units; trajectory estimation and calibration, sensor orientation and calibration for terrestrial, airborne and spaceborne sensors; hybrid navigation with cameras, and laser scanner data; information extraction from optical, multi-spectral data, laser scanner and lidar data; and kinematic mapping.

The candidate is expected to carry out innovative applied research. The applicant is expected to be motivated and team player. The candidate is expected to work independently while, at the same time, cooperating with the GEON Department. The selected candidate will become a member of the GEON Department; carry out research activities associated to this department; support the department members in the preparation of project proposals and reports; participate in the dissemination activities.

QUALIFICATIONS AND EXPERIENCE

Applicants for this position must hold a degree in geomatics, telecommunications or related disciplines (physics, geophysics, mathematics, computer science, etc.). Candidates are expected to have research and development experience. The following skills are required:

- In-depth knowledge and experience in the integration of sensors;
- Good knowledge of INS and GNSS sensors;
- Knowledge and experience in geo-location systems;
- Knowledge in localization algorithms and Kalman filtering processing;
- Experience in Image processing;
- Good knowledge of C/C++ and Linux;
- ROS (Robotic Operative System) programming skills;
- Android programming skills;
- Outstanding oral and writing English skills.

A track record and capacity of carrying out experimental work and interact with researchers is appreciated. A demonstrated capability in attracting funds, including experience in writing research proposals, participating in national and international R&D projects and managing research projects is an asset. Full professional proficiency in English is required, while Spanish and Catalan proficiency is appreciated.

CONDITIONS

The position is permanent. The salary will be determined according to qualifications, work experience and budget availability. Researchers interested in joining the GEON Department should send their curriculum vitae, including list of publications, and the names and addresses of at least two referees. These documents should be sent in PDF format through this online application <http://www.cttc.es/career/call-18-2017-1/>. CVs and any other information gathered during this process will be handled confidentially.

The application procedure begins on 13 November 2017. For further information, please contact info@cttc.es.

The CTTC seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

The CTTC is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), in Castelldefels – Barcelona, is a growing and well-funded research institution fostering excellence and diversity. CTTC offers a highly international environment at an exceptionally attractive location. As a research centre in telecommunications and geomatic technologies CTTC provides a fertile environment for research cooperation and innovation between different disciplines. For more information, see www.cttc.es

13 November 2017