

## **PERCEPTION ENGINEER**

The Computer Vision Center is seeking applications to fill a Perception engineer position for the project “PUBLIC TRANSPORT WITH AUTONOMOUS VEHICLES IN A RURAL ENVIRONMENT”

### **MAIN DUTIES:**

Design, programming and benchmarking of algorithms in real-time for perception of a robotic vehicle based on camera images, radar and geolocalization; working with different sensor data, synthetic and real.

### **JOB KNOWLEDGE, SKILLS AND EXPERIENCE**

Candidate must have knowledge and/or experience in:

1. Experience with Deep Learning. Preferred libraries: pytorch and tensorflow.
2. Experience with perception tasks: object detection, semantic segmentation, lane segmentation, etc.
3. Experience working with real outdoor datasets: KITTI, Cityscapes, Waymo, etc.
4. Programming languages. C++, Python, ROS (Robot Operating System)/Autoware/etc.
5. Linux, Windows environment, on-board systems.
6. Multicultural and multidisciplinary teamwork, fluent in English.

Candidate with the following knowledge and/or experience will be evaluated positively, but are not mandatory:

7. Experience with autonomous driving projects
8. Experience with 3D perception tasks and data representation such as voxel grids, raw points, etc.
9. Experience with multiple sensorial data: camera images, LiDAR and radar

It will be highly valued to hold a doctorate related to point 2. On the other hand, this list is of maximums, but there may be a candidate who, although he / she does not meet all these requirements, is very suitable. Likewise, a candidate may contribute knowledge and / or experiences not included in this list, but which are considered relevant to the position.

**ACADEMIC QUALIFICATIONS**

University Master or Degree in Engineering (Telecommunications, IT), Computer Science or similar

**LOCATION**

Campus UAB, Bellaterra. (Cerdanyola del Vallès, Barcelona).

**SALARY & TERM OF CONTRACT**

Salary according to Laboral Category. Contract until April 30, 2022, possibility of extension.

**Deadline to submit application:** April 06, 2021

To apply, please send your CV via the online form, indicating this offer code: **20210324\_TDA PERCEPTION\_1**. You can find the online form here: [http://www.cvc.uab.es/?page\\_id=107](http://www.cvc.uab.es/?page_id=107)

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