

Current Opening

ARQUIMEA RESEARCH CENTER is hiring a **Robotics Research Engineer in Computer Vision** to be located in our office in San Cristóbal de La Laguna (Tenerife -Canary Islands-).

We are looking for a person with proven experience in computer vision applied to mobile robotics. This person would take part in a really challenging project that, if successful, could revolutionise the computer vision as we know it.

Understanding how to use the existing resources, planning accordingly and adapting to an ever-changing environment are key aspects of the role and candidate. The successful candidate can expect to be working on several layers, from dataset design and generation to the application of training algorithms and ML. You would work as part of a model-based development process, where analysis and simulation lead way to prototypes and tests for validation and physical results. If successful, you will have the best of the best in motion tracking, robotic camera positioning systems, optical and optomechanical rigs, illumination and workstations/HPCs.

We are a highly multidisciplinary center, and the successful candidate must thrive in such environment. We encourage you to apply if you enjoy totally random conversations about several topics apart from robotics, such as space, propulsion, quantum physics, lab equipment and testing, disruptive tech... anything cool and nerdy, really.

Tasks to be performed:

- Analysis of state of the art computer vision algorithms
- Design and supervise image dataset generation. Yes, we are building our own datasets.
- Work and supervise camera calibration process.
- Contribute to the definition of system requirements.
- Design and develop use cases and demos to test the computer vision algorithms and hardware.
- Lead the modelling and simulation of the computer vision. Understand and manage uncertainty: picking the right tools to perform analyses and create models, in order to define appropriate requirements.
- Read and understand relevant research papers
- Participate in agile planning meetings and contribute to the agile-based work management tools.
- Contribute to the internal and external documentation of the Project.

Required skills, experience and candidate profile:

- Studies in the field of Computer Vision/Robotics Engineering or relevant PhD or Masters degree.
- Strong knowledge of Computer Vision and sensor fusion algorithms, specially for image based sensors. We mainly use C++, Python, Pytorch/Tensorflow
- Experience with modelling tools (Matlab, Gazebo, Coppelia or similar).
- Strong knowledge in computer vision algorithms and Machine Learning. Experience in fully embeded systems is a plus.
- You must enjoy working in a research-oriented environment.
- Data-driven, analytical mindset. Open to challenges.
- Detail-oriented person, with experience working in agile development environments, specially when focused to product hardware development.
- We are also looking for a good person, someone who thrives working in multidisciplinary and ever-changing environments.
- Proficient in English
- The candidate must be eligible to work in the EU.
- And the easiest one, you must be willing to live in the Canary Islands.

IMPORTANT: Please, only apply if you have a valid working visa for Spain, and you are willing to move to Tenerife (Canary Islands, SPAIN).

To apply, please visit [Arquimea.com/careers/](https://arquimea.com/careers/)