Expert in Artificial Intelligence

➢ DESCRIPTION

DAS PHOTONICS is a Spanish high-tech company, a leader in the development of innovative solutions, based on proprietary high-performance **photonics technology**, for the defence and space sectors. Being aware of the importance of **artificial intelligence** (AI) in these sectors, DAS PHOTONICS is currently equipping several of its products with AI. In this sense, we are actively seeking for **strong candidates with a solid background in AI with experience in the handling of images and telecommunication signals** (preferably in the field of signal intelligence). A **permanent position** is offered in which the candidate will initially join the **CUCO Project** team, the first major quantum computing project in public private collaboration type in Spain. The objective of DAS Photonics in CUCO is to **develop quantum machine/deep learning algorithms for the analysis of RADAR and communication signals**, as well as to compare their efficiency with classical AI algorithms.

➢ MAIN RESPONSIBILITIES

- Explore and advance the state of the art in the field of classical AI applicable to signal intelligence.
- Identify the strategic objectives and the required technical know-how to improve the company's products via the use of AI, enabling it to distinguish itself from its competitors.
- Develop classical AI (Machine/Deep Learning) algorithms for the analysis of RADAR and communication signals. Compare these algorithms with their quantum analogues.
- Participate in the elaboration of technical reports within the project.

➢ QUALIFICATION REQUIREMENTS

- ✓ A master's degree in any engineering field, Physics, or Mathematics (Note: Holding a PhD in fields related to this position is recommended, but not mandatory).
- ✓ At least 2 years of experience in the development of classical machine/deep learning techniques for the processing/classification of images and communication signals.
- ✓ Preferable: experience in the use of convolutional neural networks.
- ✓ Knowledge of quantum machine learning algorithms is an asset.
- ✓ English language spoken/written fluency and good communication skills.

DAS PHOTONICS offers the possibility of a permanent position to the candidate within the company. Remuneration will be established according to suitability and previous experience of the candidate.

If interested, please, send us both your CV and a motivation letter to *rrhh@dasphotonics.com*