



Senior Wireless Firmware Engineer (PHY/L1)

OQ Technology Sarl is looking for a candidate for a Senior Wireless Firmware Engineer (PHY/L1) role to be a part of a multi-disciplinary team at its facility in Athens to participate in the development activities of the payload and user terminals for its telecommunication network.

Job Location

ATHENS / GREECE

Starting date

ASAP

OQ Technology Sarl is looking for a candidate for a Senior Wireless Firmware Engineer (PHY/L1) role to be a part of a multi-disciplinary team at its facility in Athens to participate in the development activities of the payload and user terminals for its telecommunication network.

Responsibilities:

You will be the principal embedded software engineer for the project and will be responsible for the embedded software design on the radio of the payload and user terminals of the OQ Technology telecommunication network. You will also work closely with and partially manage external partner activities.

We are working on building the cutting-edge end-to-end prototype & trial systems for satellite and ground networks. These will be used not only to prove out new technology ideas and features but also to provide a platform for early demonstrations with top tier infrastructure vendors and operators around the world.

We are looking for a self-starter and motivated individual who wants to take his/her technical experience to the next level. Someone who likes to combine practical hands-on work with new algorithmic approaches and fast development.

You will be contributing to the latest ideas and developments in the wireless technology and working with world leading experts to shape the future of wireless communication. You will be implementing PHY/L1 features on compact programmable hardware.

Below is a summary of the typical tasks required for this post:

- Physical layer/L1 development experience for wireless cellular communication protocols
- Solid understanding of 3GPP (4G/5G) specifications, especially the Physical Layer
- Work with a multi-disciplinary team with a wide range of skill sets including but not limited to software development, firmware development, data analysis, and RF design.
- Explore modern wireless and Telecommunication standards.
- Explore modern techniques and unconventional methods for algorithm design and problem solving.
- Identify requirements, participate in design & specification generation activities.
- Implement digital signal processing (DSP) algorithms for communication applications.
- Generate creative, technically sound solutions, and rapidly prototype them to support proof-of-concept experiments.
- Implement algorithms in FPGAs and processors from MATLAB or C/C++ or equivalent languages.



- Collaborate with and partially manage external partners on the software design and development activities.
- Participate in project management and planning activities.
- Contribute to ESA management and technical documentation for project reviews.

Requirements

Mandatory Knowledge:

- M.Sc. in Electronics/Electrical/Telecommunications Engineering or an equivalent qualification from a recognized institution
 - 3+ years of experience with embedded software development for telecommunication and radio systems and complex S/W debugging especially for PHY and L1 of the 3GPP protocol stack.
 - Proven experience with Software-Defined Radios and ARM microprocessor.
 - Programming experience in at least one high level language (C, C++, Object-Oriented design, etc.)
 - Experience implementing wireless protocols of 3GPP standards such as but not limited to LTE, CAT-M1, NB-IoT, 5G, etc.
 - Experience with MATLAB-to-C conversion tools. –
- Experience in working with current telecommunication standards.
- Proficiency in spoken and written English.

Desirable Knowledge:

- Ph.D. in Electronics/Electrical/Telecommunications Engineering or an equivalent qualification from a recognized institution
- Self-starter and pro-active.
- Active hands-on experience with electronic components, test tools, and radio equipment.
- Ability to adapt to change in an entrepreneurial environment.
- Excellent interpersonal and communication skills.
- Ability to work autonomously as well as part of a team.

Software Skills: C/C++, MATLAB, ARM technology

Benefits OQ Technology is an innovative company and a front runner in the global race of building a global satellite constellation for Internet-of-Things communication. We work closely with the European Space Agency, government institutes, and our global customers. At our company you will have a great opportunity to overtake large responsibility to build and innovate from scratch. You will be at the centre of decision making and will interface directly with industry and business professionals all around the world, an opportunity which is rarely offered in traditional corporates.

We offer a great opportunity for you to grow and develop and make your dreams come true. If you are looking for a challenge and looking for being part of new technology innovation in the world of satellite telecommunications, OQ Technology is the right place to be.