

5G for Professional Content Production

5G Software Developer

 **Supervisor:** Prof. David Gomez-Barquero



Payroll: 22-28k€/year (gross salary)
based on qualification/experience

Job description

The Mobile Communications Group (MCG) of the **iTEAM Research Institute** will coordinate the H2020 European project **5G-RECORDS** (5G *key technology enableRs for Emerging media Content pRoDUCTION Services*). The project will integrate several content production components such as wireless cameras and microphones into premium end-to-end 5G infrastructures to deploy **IP wireless 5G content production studios**, and demonstrate and validate three use cases. The candidate will join 5G-RECORDS to **work** in the design and development of a **5G gateway** to the **SMPTE 2110** standard used for broadcast IP production. Pursuing the **PhD degree** is compatible with the job position.

Job Main Goals

- Design and development of a **5G-SMPTE 2110 gateway** for connecting wireless cameras in a 5G studio, in collaboration with BBC R&D (UK) and the EBU (Switzerland)
- Support in **technical trials and demonstrations**
- Participate in the **EBU's group 5G in Content Production**

Candidate Requirements

- BSc/MSc/PhD in Telecommunications/Electrical Engineering
- Knowledge in mobile communications (LTE, 5G) and multimedia communications is highly desirable
- Advanced skills in C++ programming language
- Fluent in English and good communication skills



Project

- 5G-RECORDS is a **5G-PPP** (www.5g-ppp.eu) project
- The project will develop, integrate and demonstrate 5G Release-16/17 technologies, focusing on content production use cases: (i) **live audio production**, (ii) a **multiple camera wireless studio**, and (iii) **live immersive services**
- Formed by **18 partners** from 9 countries (44% high-tech SMEs)
 - ❖ 5G infrastructures: Nokia, Ericsson, Eurecom, Telefonica
 - ❖ Production studios: BBC, EBU, Sennheiser, RAI, Red Bee Media



Duration: 2 years (Sept. 2020 – Aug. 2022)



If you are interested: send your CV and motivation letter to dagobar@iteam.upv.es