UNIVERSIDAD POLITÉCNICA DE MADRID

Expression of Interest – UPM Supervisor

Marie Skłodowska Curie Action –Postdoctoral Fellowship 2023 (MSCA-PF-2023)

Contact Person/Scientist in charge **Name** **Surname**	Antonio Pérez Yuste
Email	antonio.perez@upm.es
Department /Institute /Centre **Name**	Departamento de Ingeniería Audiovisual y Comunicaciones (DIAC-UPM)
Address	ETSI Sistemas de Telecomunicación, Campus Sur UPM, Ctra. Valencia, km. 7
Province	Madrid, Spain
Research Area	Social Sciences and Humanities (SOC) Economic Sciences (ECO) **Information Science and Engineering (ENG)** Environment and Geoscience (ENV) Life Sciences (LIF) Mathematics (MAT) Physics (PHY) Chemistry (CHE)
Brief description of the Centre/Research Group	The Radio Communications Group at UPM (**GRC-UPM**) is a European research leader with **expertise** in wireless communications and the development of RF hardware equipment. Our research has grown over the years in according to the international standards. We give research a high priority with a clear commitment with innovation and transfer of know-how to industry. Our group has more than **15 years** working on wireless communications for intelligent transportation systems and on personal mobile communications, and more than **25 years** working on radio communications, including the development of microwave devices and systems. **Know** more about us at our webpage: grc.upm.es
Project description	The **Intelligent Speed Assistance** (ISA) system informs, warns, and discourages the driver to exceed the statutory local speed limit. The **European Union** agreed in 2019 to make an overridable version of ISA, along with a number of other vehicle safety measures, mandatory on new models of car sold in Europe from 2022. Currently, the European Commission is supporting a combination of an extension of the general Wi-Fi standard, called **ITS-G5**, and the adaption of existing land mobile cellular networks to vehicle communications, called **C-V2X**, to build the communications network behind those services. The **main objective** for this MSCA position consists of exploring the feasibility of an alternative novel solution for **wireless connected vehicles** based on BLE5 technology and besides that, carrying out the development of a prototype based on cost-effective and low-consumption off-the-shelf modules. The **project length** is estimated to be lasted for two to three years and represents a chance to gain a tenured researching position at UPM.
Applications: documents to be submitted and deadlines	Those interested in the position and meeting the **requirements,** please send **your application with next documents** before **April 30**, 2023**:** - Transcript of records of previous studies. - Resume, also including publications and projects. - Motivation letter.