

ESR15

ESR15 project title- New Architecture, communication and networking protocols for supporting 5G-IoT wearable devices connectivity

Lead beneficiary (place of employment) – Università Mediterranea di Reggio Calabria, Italy

Supervisory team - Prof Antonio Iera and Assoc. Prof. Giuseppe Araniti (Università Mediterranea di Reggio Calabria, Italy), Prof. Joaquin Huerta and Dr. Joaquin Torres-Sospedra (Universitat Jaume I, Spain), and industrial mentor: Jesús de Diego Alarcon and Jelena Stosic (IDOM, Spain)

Project tasks and objectives- Explore the enhancements offered by a set of innovative 5G technologies in practical Internet of Wearable Things (IoWT) contexts; Study the multi-connectivity heterogeneous radio access technologies and mobility in IoWT; Investigate WiFi-Direct and 3GPP LTE with Proximity Services, nicknamed LTE-Direct, approaches for D2D communications. The ESR will also have the possibility to participate in the Advisory Board of the network (two ESRs are selected annually by voting among the 15 ESRs of the network). The ESR will also be involved in social media promotion of the network, such as Webropol surveys, Facebook and LinkedIn groups, Youtube video channels, Twitter and blogging.

Mobility/cross-country and cross-sector secondments including industrial training: 12 cumulated months at Universitat Jaume I, Spain and 3 months of industrial experience at IDOM, Spain

Eligibility: MSc degree in a relevant degree obtained after Oct 2015 and not having lived or worked more than 12 cumulative months in Italy during Sep 2016-Sep 2019.

Preferred starting date- October 2019

Trial period - 12 months

Target degree –double PhD degree from Università Mediterranea di Reggio Calabria, Italy and Universitat Jaume I, Spain

Approximate gross salary – about 2900 EUR/month for researchers without family (and about 3300 EUR/month for researchers with family)

Working and living conditions in Italy

Italy is one of the most visited countries of European Union for its rich culture, cuisine, history, fashion and art, its beautiful coastline and beaches, its mountains, and priceless ancient monuments. The city of Reggio Calabria is located on the “toe” of the Italian Peninsula and separated from the island of Sicily by the Strait of Messina. It is situated on the slopes of the Aspromonte, a long, craggy mountain range that runs up through the centre of the region. The third economic centre of mainland Southern Italy, the city proper has a population of more than 200,000 inhabitants spread over 236 square kilometres (91 sq mi), while the fast-growing urban area numbers 260,000 inhabitants. About 560,000 people live in the metropolitan area, recognised in 2015 by Italian Republic as a metropolitan city.

- <http://www.italia.it/en/home.html>
- <https://www.italiantourism.com/>
- <http://www.turiscalabria.it/website/>
- <http://turismo.reggiocal.it/HomePage.aspx?lang=en-US>

The “**Mediterranea**” University, located in Reggio Calabria, is organized in 6 Departments and almost 100 didactic or research laboratories are involved in these departments. The research potential consists of 54 Full Professors, 91 Associate Professors, 107 Researchers, to which over 100 young researchers are to be added, engaged with research grants or doctoral degrees. The mission of the “Mediterranea” University consists in promoting the development of Calabria and of the entire country through research, teaching and the quality of the services provided to the students and to the region, the spreading of values for the civil and ethic developing of the community, the innovation, the spreading of technological and professional know-how by cooperating with economic and social operators, research centres, national and international institutions with a special regard to the Mediterranean area. Read more: <http://www.unirc.it/en/>

Information about the industrial partner - **IDOM** is an independent international company that delivers professional integrated services in Engineering, Architecture and Consultancy. At present, around 2,500 people carry out their professional activities in the Company’s offices and projects across the globe. The company is employee-owned with 100% of the capital of IDOM distributed among the staff currently working in the firm. The following are the main areas of activity of the company: advanced analysis, architecture, consulting, energy, environment, water, industry, transport, nuclear, telecommunications, and urban planning. In the Consultancy Department – IDOM Digital teams are Specialists in Information Technologies. IDOM activities cover the whole life cycle of an IT Project, from the data acquisition to the design and deployment, including consulting, SW development and system integration.

Additional information:

The selected ESR for this position will have to additionally complete these steps after she/he gets the positive decision about her/his application, in order to comply with the Italian legislation on registering to a double PhD degree with an Italian university:

1. Those who are in possession of a foreign academic qualification, which has not already been declared equivalent to an Italian degree, have to enclose all the documents translated and legalized by the competent Italian representation in accordance to the set of rules in force relating to the admission of foreign students to the courses in Italian Universities, which are useful to enable the Commission that guarantees admission to the doctoral program, to assess the equivalence in compliance with current legislation in this field in Italy and in the country where the qualification was issued and with the treaties or international agreements concerning the recognition of qualifications for further studies.
2. Non-EU citizens will have to enclose to the application form all the titles translated and legalized by the Italian Embassy in accordance with the applicable standards for the admission of foreign students to Italian Universities