

### PhD Candidate position at GCOM with focus on waveform processing

The Communications Research Group (GCOM) at Universidad Carlos III de Madrid (UC3M) in Madrid, Spain, offers **1 PhD Candidate position** to work in research **funded by the Horizon Europe program**.

The research to be performed is focused on advancing waveforms and channel estimation for the next generation of mobile communications (6G). These will be key ingredients in the future mobile radio access network, aiming to satisfy the throughput, energy efficiency, positioning accuracy and feasible complexity requirements that the evolution of mobile communications towards 6G demands.

The research will take place in a highly international and cooperative environment with academic and industrial partners, where we aim to unlock multiplicative gains in terms of energy efficiency, spectral efficiency, communication and millimetre-level sensing resolution while maintaining backward compatibility with the existing 3GPP technologies through a unified multi-dimensional waveform processing approach.

The candidate will be enrolled in the PhD program at Universidad Carlos III de Madrid (UC3M).

#### Candidate's profile

The candidates should have a university master's degree and be eligible to enrol in a PhD program at UC3M. Knowledge in fields related to Telecommunications (or closely related disciplines) is required. A high level of English language is required. International experience is appreciated. Research experience and good communication skills are appreciated.

#### Conditions

- Competitive annual salary.
- Full time dedication with flexible working conditions.
- Application deadline: continuous evaluation until the position is filled.
- Contract duration: 36 months.
- Starting date: preferably starting September 2026; January 2027 the latest.
- Location/Who we are/About the GCOM group: <http://gcom.tsc.uc3m.es/en/home/>

GCOM, led by Professor Ana Garcia Armada ([link to website](#)), is part of the Department of Signal Theory and Communications of UC3M (Spain). The group has a strong expertise and research record on the design, analysis and implementation of signal processing techniques applied to wireless communications.

#### Applications

Interested candidates may send their **application through this [online form](#)** including:

- Letter of motivation
- CV
- Diplomas and Transcripts of obtained degrees
- Reference letters

Applications will be continuously evaluated upon reception, and online interviews will be organized with the selected candidates until the position is filled.