

# CALL 14-2024-1 Research Engineer for a Cloud 5G/6G Lab

## Who are we looking for ?

CTTC is searching for two interested candidates to work as research engineers for a cloud 5G/6G lab of the SaS research unit: <https://www.cttc.cat/services-as-networks-sas/>.

The two successful candidates will be an integral part of the SaS research unit, primarily operating within our state-of-the-art laboratory. The candidates will actively engage in cutting-edge research and collaborate on projects related to 6G mobile networks.

## What do we offer? :

- We offer an indefinite contract of scientific technical activities until the end of the UNICO program or other programmes in which CTTC is participating. Once this project will finish, you will join other projects in the same research line, subject to budget availability.
- Annual gross salary according to the profile of the candidate
- Full-time contract: 7,5 h/day. Flexibility
- **Expected professional category: R1/R2.**  
Exceptional candidates may be considered even if they do not meet all the requirements. In this case the professional category will be based on the qualifications and experience of the applicant according with CTTC professional categories procedure (<https://www.cttc.cat/wp-content/uploads/2023/09/Update-professional-categories.pdf>).
- Tenure track: Career progression with possibility of stabilization through a permanent structural contract
- Prospect start date: July/August 2024
- Continuous training, access to lab facilities, state of the art infrastructure and polyvalent working spaces, participation in scientific events and R&D projects, complementary skills development.
- Possibility to enroll in a PhD Program (PhD fees paid by CTTC)
- Professional career promotion in case of obtaining a PhD
- **We have great benefits for employees:**
  - Paid time off: vacation (33 working days per year), holidays, sick and parental leave and more
  - Up to 3 days of Telework per week (2 fixed + 1 upon request). Other requests may be studied to accommodate special needs.
  - Flexible working hours for work-life balance
  - Tax-free optional benefits: restaurant ticket, nursery ticket, transport pass, private health insurance for employees and family.
  - Career path promotion (either professional category and/or annual gross salary)
  - Annual productivity upon performance
  - Possibility to complement the salary with personal grants

## Qualifications and Experience

We are looking for a highly motivated, enthusiastic, energetic person, aiming at significantly improving his or her career perspectives in both public and private sectors.

- **Required qualification/skills/experience:**
  - Proficiency in Linux system administration (40 points)
  - Experience in managing virtual machines (20 points)
  - Strong networking knowledge, including VPN management (20 points)
  - **(for R2 only)** BSc degree in Telecommunications, Electronic Engineering, Computer Science or a closely related field (10 points)
- **Other skills that are valuable, but not mandatory are:**
  - **(for R1 only)** BSc degree (or equivalent number of years of expertise) in Telecommunications, Electronic Engineering, Computer Science or a closely related field (10 points)
  - MSc/PhD in Telecommunications, Electronic Engineering, Computer Science or a closely related field (or equivalent number of years of expertise) (5 points)
  - Familiarity with containerization tools such as Docker and Kubernetes (10 points)
  - Experience from participating in national and/or international research projects with partners from academia and industry, e.g., EC H2020 (5 points)
  - Strong oral and written English communication skills (5 points)
  - Hands-on experience in topics like (15 points):
    - Configuring and managing web servers like Apache and Nginx
    - Understanding of CI/CD principles and practices
    - 5G and Wi-Fi experimentation
    - 5G Core technologies like Open Air Interface or Open5GS
    - NVIDIA GPUs and their utilization for research purposes
    - Android development skills for deploying mobile applications
    - Headsets, particularly in the context of VR/AR research

Even if you do not meet all the requirements, we encourage you to apply.

The candidates' past performance but also future potential will be considered as criteria for selecting researchers.

## How to apply?

All applications must include:

1. A complete CV, including a list of publications and the contact details of two potential referees
2. Highest obtained academic degree (BSc, MSc, etc.)

- Cover letter stating the motivation and suitability of the candidate. A brief paragraph explaining the main achievement in each of the requirements of the call instead of simply listing the related keywords is appreciated.

The application documents must be submitted in pdf format through this online application.

\*ONLY APPLICATIONS VIA WEB <https://www.cttc.cat/talent/careers/job-openings/> WILL BE TAKEN INTO CONSIDERATION.\*

CVs and any other information gathered during this process will be handled confidentially

### Who are we?

- The Center Tecnològic de Telecomunicacions de Catalunya (CTTC) is a non-profit **public sector** research institution dedicated to fundamental and applied research activities, focused mainly on technologies related to the physical, data link and network layers of communication systems and Geomatics.
- CTTC received the “HR Excellence in Research” award in 2015 from the European Commission and successfully passed into the Award Renewal phase in 2023. This is a recognition of the Institute’s commitment to develop a Human Resources Strategy for Researchers ([HRS4R](#)), designed to bring the practices and procedures in line with the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers ([Charter and Code](#)). Our institution's comprehensive analysis and HRS4R action plan meet all the requirements of progress and quality of our HR policies. CTTC promotes itself as a provider of a stimulating and favourable work environment for researchers.
- The CTTC is located in the beautiful [Mediterranean Technological Park of Castelldefels](#), a science park that houses the Polytechnic University of Catalonia, research institutions, innovative companies and startups. The PMT-UPC is located 10 minutes' walk from the beach and the city center of Castelldefels, also close to childcare centers, public schools and the best international schools. It can be reached by car, train (RENFE) and various bus lines.
- We have 2 buildings on campus, with state-of-the-art facilities, comfortable work spaces, meeting rooms, and multipurpose spaces, as well as social spaces.
- The institute has a **multicultural environment** with more than 130 members (scientific, technical and administrative staff) from all over the world.

CTTC offers and promotes a diverse and inclusive environment and welcomes applicants regardless of age, disability, gender, national origin, race, religion, or sexual orientation.

The CTTC seeks to increase the presence of women in those areas where they are underrepresented and therefore explicitly encourages them to stand as candidates.

It is also committed to increasing the number of people with disabilities in its workforce and therefore encourages their applications.

