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| Research topics | UE-based positioning in 5G LEO NTN |
| Position (M/F) | Post-Doctoral / Research Engineer |
| Reference offer | CS/FK/NTN/032026 |
| Research Department | Communication Systems (CS) |
| Publication date | 17/03/2026 |
| Start date | ASAP |
| Type of employment contract | Fixed Term Contract [18 months maximum] |

Description

We are looking for a full-time Postdoctoral Researcher to take technical ownership of an ESA-funded research project on UE-based positioning for 5G Low Earth Orbit (LEO) Non-Terrestrial Networks (NTN), using NR-NTN and IoT-NTN (NB-IoT) technologies. The project will extend previous work on terrestrial 5G NR positioning methods as well as 5G NTN features that have already been integrated into OpenAirInterface.

What you'll do

- Design, implement, and validate positioning features such as based DL-TDoA based on PRS (NR) as well as NPRS (NB-IoT) in OpenAirInterface. The implementation needs to be adapted to the 5G LEO environments with high Doppler shifts.
- Implement reception and management of UE assistance data from posSIB and SIB19 messages.
- Setup of a testbench in simulation as well as with software defined radios (SDR) to test and evaluate the implementation
- Coordinate students and engineers, and act as technical interface with Airbus
- Contribute to open-source software, project deliverables, and publications

Why join us

- High-impact role in an ESA / Airbus project
- Work on real 5G/6G-NTN systems, not just simulations
- Direct contributions to OpenAirInterface, used worldwide
- International, research-driven environment at EURECOM

Requirements

- PhD in wireless communications or related field
- Strong experience with LTE / NB-IoT and/or 5G NR
- Hands-on skills in C/C++, Linux, and SDRs
- Background in positioning (ToA, TDoA, RTT, Doppler) is a big plus
- Comfortable combining research leadership with system-level implementation

Application

The application must include :

- Detailed curriculum,
- List of publications specifying the three most important publications,



- Motivation letter of two pages also presenting the perspectives of research and education,
- Name and address of three references.

Applications should be submitted by e-mail to secretariat@eurecom.fr with the reference: CS/FK/NTN/032026

About EURECOM

EURECOM is a major Engineering School and a Research Center in digital sciences founded in 1991 as a consortium in the international technology park of Sophia Antipolis. The IMT is a founding member of the GIE. Teaching and research activities are organized around 3 promising fields: digital security, communication systems and Data Science.

EURECOM has a staff of 190 (researchers and support teams) and welcomes 400 international students on the Campus Sophia Tech, the largest information science and technology campus of the region. EURECOM enjoys a privileged geographical environment on the French Riviera (Côte d'Azur), between sea and mountains, at the heart of a dynamic and multidisciplinary ecosystem that promotes high-level scientific and technological innovation.

Social advantages

- International and multicultural environment
- Attractive salary - Corporate saving plans
- Private retirement plan (executive, employer participation of 100%)
- Employee profit sharing policy
- Company health insurance (mutuelle) with high levels of guarantees for the whole family (employer participation of 60%)
- Restaurant vouchers (employer contribution of 60%)
- Corporate and Social Council (CSE)

EURECOM is one of Europe's leading engineering schools specializing in digital technologies. It is located in the heart of the Côte d'Azur, in Europe's Silicon Valley (Tech Park Sophia-Antipolis). EURECOM's research teams work in an international, multicultural environment.

EURECOM has a dynamic policy in terms of **inclusion and quality of life at work**. We are committed to diversity and give equal consideration to all applicants, without discrimination. Above all, we look for competence and team spirit.

All our positions are open to **people with disabilities**. EURECOM has set up a disability advisor to provide support and advice, organize accommodation and make positive commitments to personal integration.

As part of its **gender equality plan**, EURECOM encourages gender diversity within its teams. As part of our gender equality action plan, we encourage male applications for administrative positions, traditionally held by women, and female applications for IT and research positions, traditionally held by men.

EURECOM is taking positive action as part of its **CSR policy**. A CSR representative oversees EURECOM's CSR and energy transition policies (electric charging stations, solar panels, waste sorting, etc.).

Web site EURECOM: <https://www.eurecom.fr/fr/eurecom/presentation>

EURECOM in VIDEO: <https://www.youtube.com/watch?v=u1IFcgNijnM>

Employee experience: <https://www.youtube.com/watch?v=BHv9zlduzuQ>