xG Communication Systems Research Engineer

Internship (Full-Time) – Turning Technology Research into Hands-On Training Modules

(Voluntary or Part of Study Program, 3–6 months, starting Nov/Dec 2026 | Offenburg | Onsite | IICT GmbH)

About Us

IICT GmbH offers a complete training system — **one connected learning ecosystem, from training hardware to guided experimentation**. IICT GmbH combines **physical training systems, remotely accessible virtual labs, and structured hands-on courses** into one practical learning pathway across **IoT, 5G/6G, and Embedded AI**, giving SMEs and academic institutions access to next-generation connectivity technologies & testing environments. Join our dynamic team and help shape the future of connected technologies.

More details:
www.ii-ct.com
www.iict-training.com

Role & Responsibilities

As a **xG Communication Systems Research Engineer Intern**, you will support the **research, testing, and analysis of advanced 6G-IoT experimentation platform features**, with a strong focus on **next-generation radio network technologies**, while helping translate that research into **hands-on training modules**. You will work closely with our **technical and training teams**. Your tasks include:

Technical Research & Testing

- Support research, testing, and analysis of **advanced network topologies**, including **5G/6G and Industrial IoT communication**, **O-RAN**, and **5G Standalone (SA) networks**.
- Assist with the **integration and evaluation of the Radio Intelligent Controller (RIC)**, including **rApps/xApps**, for radio network optimization.
- Support the investigation and evaluation of **Joint Sensing and Communication (JSAC/ISAC)** approaches and related use cases.

Hands-On Training Module Development

- Work with **SMEs and the training team** to translate technical research and test results into **hands-on learning modules and lab exercises**.
- Support the **design and development of learning content, lab exercises, and training modules** based on technology trials and evaluation results.
- Support **quality assurance, structured documentation, and technical review** of test setups, results, and learning materials.

Platform Support

- Contribute know-how on **setting up digital platforms for learning and experimentation** (an advantage).

Qualifications & Requirements

- Currently pursuing, or recently completed, a **Bachelor's or Master's degree** in **Communications Systems Engineering, Electrical & Telecommunication Engineering**, or a related field.
- Interest in **5G/6G networks, O-RAN, 5G-SA, RIC/rApps/xApps**, and/or **JSAC/ISAC** concepts.
- Interest in **testing, evaluating, and analyzing** wireless communication or IoT systems and use cases.
- Willingness to **translate technical research outputs into clear documentation and learning content**, working alongside SMEs.
- Basic working knowledge of **Embedded C/C++, Python, MATLAB**, or similar tools is a plus.
- Good written and spoken **English**; German language skills (B1 or above) are an advantage.
- Valid work/internship permit to take up an internship in Germany.

What We Offer

- Hands-on exposure to **real 5G/6G, O-RAN, RIC, and IoT experimentation**, alongside experienced engineers and SMEs.
- Direct mentorship in both **technical research** and **hands-on training module development**.
- A **flexible internship format**: voluntary or as part of a study program, for **3–6 months**, starting **November/December 2026**.
- A **certificate of internship** and the possibility of a follow-on role at IICT GmbH based on performance.
- A collaborative, international, research-driven environment spanning **technical development and training/learning design**.
- Access to **state-of-the-art hardware, labs, and testbeds**, **onsite** at our **Offenburg office**.

To apply, please send your CV and a short motivation letter to jobs@ii-ct.com
We are already looking forward to your application!