

Advanced Wireless Communications Intern [IDA: 00044]

Descrição da função

The intern will support research activities at the intersection of AI/ML and advanced wireless communication systems, with a particular focus on AI-native air interfaces for 6G or Reconfigurable Intelligent Surfaces (RISs). While AI/ML techniques are already being studied in 3GPP for physical layer enhancements (e.g., beam management, positioning, CSI), 6G envisions an air interface where AI is deeply integrated into the transceiver chain. This internship will investigate AI-driven approaches for online adaptability, RIS-assisted connectivity, and autonomous channel estimation, targeting applications such as vehicular communications.

Requisitos

Wireless Communication Fundamentals:

1. Basic understanding of digital communications (concepts like signals, noise, and bandwidth).
2. Interest in learning about OFDM, modulation, coding, and MIMO (prior coursework is helpful but not required).

Software & Tools:

1. Exposure to MATLAB/Simulink.
2. Basic Python programming skills (NumPy/SciPy; familiarity with AI/ML frameworks like TensorFlow or PyTorch is a plus, but not mandatory).
3. Curiosity about simulation platforms such as ns-3 / LENA (optional).

Additional Competencies:

1. Willingness to tackle analytical and problem-solving tasks with guidance.
2. Ability to read and summarize technical content (standards or papers) at a high level.

O que oferecemos

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Identificação da vaga
REF3319V

Área funcional
Engineering

Local
Singapore

Pessoa jurídica
**Continental Automotive
Singapore Pte. Ltd.**

Quem somos

Since its spin-off in September 2025 AUMOVIO continues the business of the former Continental group sector Automotive as an independent company. The technology and electronics company offers a wide-ranging portfolio that makes mobility safe, exciting, connected, and autonomous. This includes sensor solutions, displays, braking and comfort systems as well as comprehensive expertise in software, architecture platforms, and assistance systems for software-defined vehicles. In the fiscal year 2024 the business areas, which now belong to AUMOVIO, generated sales of 19.6 billion Euro. The company is headquartered in Frankfurt, Germany and has about 87.000 employees in more than 100 locations worldwide.