VRIJE UNIVERSITEIT BRUSSEL

AI Engineer – Multi-agent AI at the Edge

We are looking for an AI engineer who loves turning cutting-edge research into rock-solid, real-time systems. You will help our team ship multi-agent, multimodal LLM pipelines and machine-perception stacks on embedded hardware—the very technologies that power distributed devices at the edge, with applications in smart mobility, retail, industrial automation, etc.

What will you work on

- Architect & implement micro-services (Python/C++) that host LLM components and expose REST APIs.
- Optimise deep learning models so they fit on edge SoCs (e.g., NVIDIA Orion) while meeting latency targets.
- Containerize services (Docker, Kubernetes), set up automated testing and deployment pipelines.
- Work daily with PhD students and senior researchers; co-author demos, patents, technical deliverables, and research papers.
- Collaborate with top EU labs and industry partners.

Required Qualifications:

- MSc in (Applied) Computer Science, Electrical/Electronic Engineering
- Strong Python and one systems language (C++ / Rust / Go)
- Experience deploying real-time computer vision or NLP models on embedded/edge devices
- Solid grasp of Docker, CI/CD, Git workflows

Nice-to-Haves

- Experience with AutoGen, LangChain or other multi-agent LLM frameworks
- Knowledge of retrieval-augmented generation and streaming data pipelines (Kafka, Spark)
- CUDA/TensorRT or ONNX-Runtime on Jetson, Coral, NPU or FPGA

Offer:

- Full-time contract (with annual renewal upon positive evaluation) at ETRO, Vrije Universiteit Brussel (VUB).
- Competitive salary, hospital insurance, transport coverage, and generous leave.
- Daily collaboration with an international team of experts in AI, computer vision, and autonomous vehicles.
- Access to state-of-the-art sensing platforms and the imec ecosystem.
- Support for conference travel, specialised training, and broad networking.

Workplace: VUB Etterbeek campus, Pleinlaan 2, 1050 Brussels, Belgium.

About ETRO-VUB:
ETRO, the Department of Electronics and Informatics (http://www.etrovub.be/) of the Vrije Universiteit Brussel (VUB), performs fundamental and applied research in signal processing, AI, computer vision, NLP, electronics, and computing. We are a member of imec, the world-leading research and innovation hub in nano-electronics and digital technologies. English is our primary working language, and we foster a welcoming, multicultural environment.

Application Procedure
Combine the following into one PDF and email it to nikos.deligiannis@vub.be:

- Cover Letter (1–2 pages) – motivation and fit.
- Curriculum Vitae –with links to GitHub or relevant repos.
- Academic Transcripts – BSc & MSc.
- References – contact details of 2–3 referees.

Start Date: 1 December 2025 (earlier start is also possible).

Bring your passion for low-latency AI, multi-agent systems at the edge—join us to push intelligent edge devices to the next level.