

# Embedded AI developer for DNN runtime

## About the Job

Are you a skilled software engineer with expertise in Embedded systems (IoT) and Deep Neural Networks (DNN), seeking a thrilling opportunity to become a key technical contributor at an innovative AI startup backed by the [European Space Agency](#) (ESA)?

Join us at [NinjaLABO](#), where we're developing tiny DNN runtime, focusing on crafting minimalistic DNN inference-only engines renowned for their efficiency and compact footprint, tailored for specific DNN models and IoT devices. This would be leading to the Machine Learning Compiler ([ML Compiler](#)) products eventually under our TinyML as-a-Service (TinyMLaaS) platform ([paper](#) & [demo](#)).

## What You'll Be Doing

Have a leading role in the development of DNN runtimes, focusing on hands-on code contributions in diverse software engineering environments.

- Train DNN models with [quantization](#) techniques.
- Develop efficient, concise **runtimes** for specific DNN models and hardware configurations.

## What We Need to See

- Experience in training DNN models using [Pytorch](#) (or [TensorFlow](#)).
- Strong command of C/C++ programming.

## Bonus Skills

[Llama.cpp](#) / [Whisper.cpp](#) / [GGML](#) / [Llama2.c](#), [OpenMP](#), [MLIR](#), [Apache TVM](#), [CUDA](#), [TensorFlow Lite For Micro](#) (TFLM)

## Your Work Environment

- Fully remote position utilizing [SCRUM](#) methodology.
- Utilization of [Docker](#) and [Docker Compose](#).
- Workflow managed through [GitHub Projects](#), [GitHub Workflow](#), [GitHub Pages](#) ([Quarto](#)),

## Contract Period

6 months from March to August / 3 months from June to August

## Monthly Pay

Contracts facilitated through [UKKO.fi](#).

- 3,000+€ PhD student
- 2,600-2,800€ Master student
- 2,100-2,400€ Bachelor student

## How to Apply

Interested in this groundbreaking opportunity? Direct your application to [Hiroshi Doyu](#) <[hiroshi.doyu@ninjalabo.ai](mailto:hiroshi.doyu@ninjalabo.ai)>