

NOW RECRUITING

# BUILD THE FUTURE WITH AI

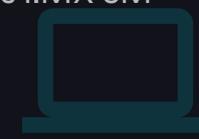
NXP SEMICONDUCTORS x CTRL

Feb 23 Start • NXP Offices & SDSU • 10 weeks

PROJECT 01

## Edge AI Development

Build embedded AI applications that run at the edge. Develop real-time inference systems using NXP's i.MX 8M Plus FRDM development boards and the eIQ machine learning SDK.



**Preferred Skills:** C/C++ programming, basic electronics, Linux command line, interest in hardware

**You'll Learn:** Embedded systems development, model optimization & quantization, real-time ML inference, hardware-software integration, edge deployment pipelines

i.MX 8M Plus FRDM eIQ SDK TensorFlow Lite Embedded C/C++ Linux

PROJECT 02

## Agentic AI in the Cloud

Design and deploy autonomous AI agents that reason, plan, and execute complex tasks. Build scalable cloud infrastructure for next-generation intelligent systems.



**Preferred Skills:** Python programming, REST APIs, basic cloud concepts, familiarity with LLMs

**You'll Learn:** Agentic design patterns, prompt engineering, RAG architectures, cloud deployment (AWS/GCP), multi-agent orchestration, tool use & function calling

LLM APIs LangChain AWS/GCP Python RAG Systems

PROJECT 03

## AI/ML for EDA

Apply machine learning to revolutionize electronic design automation. Tackle chip placement, routing optimization, timing analysis, and design verification challenges.



**Preferred Skills:** Python, ML fundamentals, linear algebra, interest in chip design or optimization problems

**You'll Learn:** Graph neural networks for circuits, reinforcement learning for optimization, EDA tool flows, VLSI design fundamentals, ML model deployment for CAD

PyTorch Graph Neural Networks Reinforcement Learning VLSI CAD

## Ready to Make an Impact?

APPLY BY FEB 10

SCAN TO REGISTER →



◆ Hands-on Experience ◆ Industry Mentors ◆ Portfolio Projects ◆ All Majors Welcome



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