Principal Software Engineer - Compilers (m/f/d)

At Axelera AI we are building a novel software stack to unlock the power of industry-leading in-memory computing technology. Our software stack enables AI developers to transform their Machine Learning models into highly-optimized machine code for the Axelera hardware platform easily and efficiently and to run DL applications with high efficiency and performance.

Your role
Your primary role will be to drive the technical strategy for the Axelera Compiler and lead the development of the Axelera compiler & SDK.

Your tasks will mainly include the following:
- Lead the development of the Axelera compiler, including hands-on code contributions in diverse software engineering environments
- Partner with the architecture and hardware teams to define the hardware/software interface and drive hardware/software co-design
- Work with data scientists and AI experts to develop algorithms for transforming and optimizing Neural Networks for In-Memory Computing
- Develop hardware-aware optimizations for the Axelera software stack
- Work with product management to define the roadmap and execution timelines
- Establish processes and tools for ensuring high quality in the software development process

Your profile
- Master's, or PhD in Computer Science or a related technical field
- 8 years of experience in a Software Engineering R&D role, ideally thereof 2 years of experience with Deep Learning frameworks and AI systems.
- At least 3 years of experience in a technical leadership role with demonstrated ability to create and execute technical plans in a timely manner
- Background in systems programming, incl. compiler development
- Excellent verbal and communication skills
- Proficiency in C++ & Python
- You are self-reliant, independent with high sense of ownership of your work and value freedom with responsibility

Who we are
Axelera AI is a truly European deep-tech Start Up company which is developing a game-changing hardware and software platform for AI at the edge that will make the industry more integrated, efficient and accessible. Our mission is to spread artificial intelligence for a green, fair, trusted and safe world enabling new application of AI in diverse sectors like smart cities, retail and other markets. Our company is a spin-off from a multinational deep-tech group and is backed by a strong syndicate of institutional investors. We have an extraordinary and international team of top talented researchers and developers working in the headquarter in Eindhoven (NL) and in the branch offices in Leuven (BE), Zurich (CH) and Pisa (IT).

What we offer
Take the chance to become part of a dynamic, fast-growing, international organization. We offer an attractive compensation package, including a pension plan, extensive employee insurances and the option to get company shares.

An open culture that not only supports creativity and continual innovation is awaiting you. Collaborative ownership and freedom with responsibility is characteristic for the way we act and work as a team.

Interested?
Great! We are looking forward to receiving your application! Feel free to contact us whenever you have any questions or for further information @Heike Wilfling, HR Business Partner +31621929159. For further information on Axelera AI please also have a look on our website: www.axelera.ai

Do you want to stay informed about our journey and our current vacancies? Follow us on Linkedin