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# Job Description: DSP Processor Architect

**Summary**
MediaTek is the world’s 4th largest fabless semiconductor company, leading the market in chipset technology. We enable more than 1.5 billion consumer electronic products a year including Smart phones, Smart TVs, Voice Assistant Devices, Android tablets, DVD/Blu-ray players. We’re number two globally in smart phones.

MediaTek is one of the top four companies globally to advance 5G development, quickly bringing a complete, standards-based and optimized 5G solution to the market. At MediaTek Sweden (MSE) we develop a vector DSP processor platform optimized for signal processing in wireless modems. Our technology is used in MediaTek cellular modems for 4G and 5G, in chipsets that are produced in millions every month.

Our processor architecture is continuously evolving to meet the requirements of new communication standards and products. This work is carried out at the Linköping office, in collaboration with teams in Taiwan and the US. In Linköping, we also implement the key components of the DSP and deliver it as a soft IP block to modem chip projects. Requirements on high clock frequency and low power mean that we must also have very good understanding of the physical implementation. We also develop tools for generating and verifying different processor configurations, as well as a simulator/debugger used to develop firmware for our processor.

**The Role**
We are looking for a passionate technologist with a software or hardware background, who wants to be part of defining the DSP processor platform for MediaTek’s future smartphone chipsets.

You will join a fantastic team, who are responsible for defining the long-term direction of MediaTek’s DSP processor architecture.

Your job will be to drive architecture studies and to propose and evaluate processor enhancements to handle the processing requirements of future mobile communication standards and products.

As the architecture work is completed in collaboration with the silicon IP team in Sweden, our compiler team based in the US and a team of modem architects based in Taiwan, the ability to communicate effectively and efficiently across various time zones and cultures is critical. This is an excellent opportunity to work with advanced technology alongside highly skilled and motivated colleagues in a creative, international environment.

**Qualifications**

* M.Sc. in Computer Science, Electrical Engineering or equivalent education
* Preferably 5 years of relevant experience, or PhD in a relevant area, however we are open to talented Engineers with less experience who believe they have the below skillset

**Essential Skills**

* Understanding of embedded/DSP processor architecture
* Experience from DSP firmware development and/or processor architecture evaluation and profiling
* Fluency in spoken and written English

**Desirable Skills**

* Signal processing / Telecommunication algorithms
* Telecommunications system architecture
* Compiler technology
* Chip/system bring-up and debug
* Fluency in Swedish is desirable

**Soft Skills**

* Highly motivated – able to work with minimum supervision and see projects through to completion
* Team player – able to working with colleagues effectively to complete challenging projects
* Innovative thinker
* Good communicator- able to communicate effectively across the world using a range of tools such as instant messaging and video conferences.
* Able and willing to travel if required

# Location

# With 150,000 inhabitants, Linköping is the fifth largest city in Sweden. It is located in the beautiful Östergötland region in the south east of Sweden, less than two hours from Stockholm. Our office is located in Mjärdevi Science Park, with a close connection to Linköping University, one of the top universities in Sweden.

High-speed train connections take you to Stockholm in 1 hour 40 minutes and to Copenhagen in 3 hours. The local airport offers direct flights to Copenhagen and Amsterdam.

 **MediaTek and You**

MediaTek looks for people with a great passion and work ethic, who have a broad set of technical skills and are ready to master new technologies and tackle some of industry’s greatest challenges to positively impact billions of future users.  From 4G and 5G smartphones, to tablets and digital television, MediaTek are changing the industry one innovative product after another.

We pride ourselves on having an accomplished and successful global collaborative team culture and a competitive compensation package.  We know that each person makes important contributions, and that they are integral to our success.

**How to Apply**To apply for this exciting opportunity please apply via the MediaTek website, including a CV, your contact details and a brief cover letter describing why you feel you are suited to the role.

For any queries, please contact careers.europe@mediatek.com