Microprocessor design

STMicroelectronics is a leading semiconductor company specialized in the design of devices for embedded applications in the Consumer, Industrial and Automotive fields.
The company has a long experience in the design of microprocessors whose instruction set is often customized to increase performance and energy efficiency in the different application domain.
The candidate will be part of the team of high skilled microprocessor designers.

Job description
The jobholder will design the microarchitecture of a new generation of application specific microprocessors to achieve the performance and energy efficiency targets for the selected embedded applications.
The work will start from the definition of the microarchitecture and it will go through the RTL design of all the units of the microprocessors

Skills
Familiar with microprocessor architectures (ARM or RISC-V or MIPS), embedded systems architectures and algorithm profiling.
Preferred knowledge in RTL coding to reach high clock speed units with pipeline design, vector and SIMD unit design as well as HW coprocessor interfaces.
Familiar with FPGA prototyping.
Strong analytical and problem solving skills, attitude to work autonomously as well flexibility to acquire new skills in the team.