

Researcher - Spin logic devices

IMEC, Leuven, Belgium

Imec

Imec is the world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of our widely acclaimed leadership in microchip technology and profound software and ICT expertise is what makes us unique. By leveraging our world-class infrastructure and local and global ecosystem of partners across a multitude of industries, we create groundbreaking innovation in application domains such as healthcare, smart cities and mobility, logistics and manufacturing, and energy. As a trusted partner for companies, start-ups and universities we bring together close to 3,500 brilliant minds from over 70 nationalities. Imec is headquartered in Leuven, Belgium and also has distributed R&D groups at a number of Flemish universities, in the Netherlands, Taiwan, USA, China, and offices in India and Japan. All of these particular traits make imec to be a top-class employer. To strengthen this position as a leading player in our field, we are looking for those passionate talents that make the difference! Currently we are looking for a motivated **Researcher**.

The job

The researcher will be a member of the Exploratory Device team to enable novel device concepts for logic applications. You will work closely with our engineers to design and build spin-transfer torque devices with lab and fab processing. Your main responsibilities are to conceive and improve STT device design, provide integration strategy and to carry out physical and electrical characterization in both lab and fab based environment. You will focus on the realization of low power/proof-of-concept logic devices such as majority gates, to obtain valuable insights on the switching mechanism, domain wall propagation and pinning. Moreover, you will provide guidance to and supervise PhD students. In addition to domain-wall-based spin logic devices, the researcher will have the opportunity to explore experimentally innovative logic concepts based on spin-torque oscillators. A few years of industrial or academic experience would be a plus.

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