

## Two PhD Student and Two Postdoctoral Positions in Nanoelectronics

The research within the Nanoelectronics group at Lund University, Sweden focuses on science and technology for emerging ICT applications. Our efforts build on knowledge in nanotechnology that we combine with conventional top-down device processing for post Si CMOS applications. We have extensive collaborations related to, for instance, antenna design, communication technologies, surface science and transport physics that we combine with our key competence in device technology.



### Two PhD Positions - Neuromorphic Devices and Circuits

The PhD positions aim at fabrication of neuromorphic structures and low-power circuits building on available III-V nanowire MOSFET and TunnelFET technology. A special emphasis will be to integrate new device functionality by materials engineering. The research will primarily involve device and circuit fabrication as well as materials evaluation.

### Post-doctoral Position - Ferroelectrics

This position aims at development of process technology for deposition of ferroelectric films on III-V substrates and nanowires using Atomic Layer Deposition. Lund University has been developing III-V MOSFETs with very competitive performance lately. Integration of a ferroelectric film will add additional device functionality, and will be a natural extension of the studies of high-k dielectrics on III-V substrates at Lund University.

### Post-doctoral Position - Radar

This position aims at measure and study short-range radar signals in the millimetre wave frequency range. Lund University has been developing a coherent, pulsed, radar system operating at 60 GHz that is used for imaging, materials analysis, and positioning. The project aims to further strengthen the effort and in particular apply the measurement techniques to moving objects.

[www.lth.se/english/about-lth/vacant-positions/](http://www.lth.se/english/about-lth/vacant-positions/)

Deadline: 2018-01-15

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