

THE AIM is to give an overview of nanofabrication-related competence/expertise and ongoing R&D activities at RISE covering:

- nano materials synthetization
- wafer-scale nano device fabrication/ characterization
- related photonic and electronic applications.

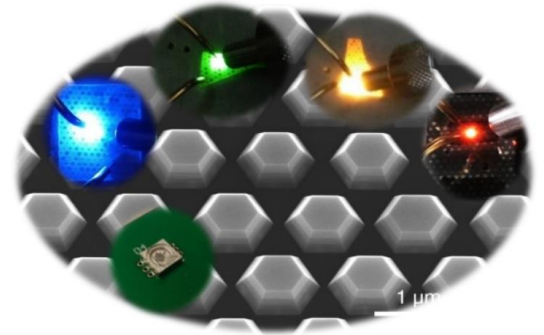
Large area nanofabrication would drive development and innovation of nano materials, devices and systems to the next stage of technology readiness.



THE OFFER is aimed to researchers, industries, problem-owners and users, promoting collaborations, joining us together to develop the innovations of tomorrow. Besides the offers on the state-of-the-art equipment in these two clean room facilities and nanofabrication expertise, we would also emphasize other collaboration possibilities regarding national and international networks, training/skills development as well the funding opportunities.

A couple of collaboration examples will be presented to provide a glance about how RISE's cleanroom-based testbeds could help its industrial partners such as Hexagem AB to develop nanowire based high quality GaN on Silicon wafers, enabling vertical device architectures for the power electronics market,

<https://www.ri.se/sv/berattelser/startup-utvecklar-energismart-gan-halvledare-hos-testbadden-pronano>.



DR. MARTIN BERG got his PhD from Lund University, Sweden in 2015. His research focused on the fabrication of nanowire based- transistors and their implementation in electrical circuits. Since 2019 he has worked at RISE as a research scientist and project leader on GaN based material epitaxy growth, device design and fabrications, especially on related material and device characterizations. martin.berg@ri.se



PROF. QIN WANG is a senior expert at RISE and an adjunct professor at Royal Institute of Technology (KTH), Sweden. She is working on nanostructure-based electronic/photonic devices for sensing, imaging, communication and power electronic applications. She has experience working with EU projects from FP5 to EU H2020, such as EU Q-switch, Labels, Iphobac, Odin, Sandra, Technet_Nano, NoCaTs, C3PO, CAMART², UltimateGaN, Opera and PhotonHub. qin.wang@ri.se

RISE has approximately 100 testbeds and demonstration facilities including Electrum Laboratory in Stockholm and ProNano in Lund, Sweden, <https://www.ri.se/en/test-demo/electrum-laboratory> and <https://www.ri.se/en/test-demo/pronano-scale-up-your-innovation-with-nano-and-gan-materials>. These two Labs are open to businesses, academia and the public sector, offering research and development capabilities within semiconductor and nanotechnology for both direct commercial assignments and as a resource in joint research and innovation projects.