

The Ilse Katz Institute for Nanoscale Science and Technology

The Ilse Katz Institute for Nanoscale Science and Technology (IKI) at Ben-Gurion University of the Negev (BGU) was founded in 2006 and operates under the Israeli National Nanotechnology Initiative (INNI). In 2007, the Israeli government decided to establish the area of nanoscience as a national priority project with the goal of creating a research infrastructure that will be the basis for nano-industries in Israel. The IKI brings under one roof a community of scientists working on aspects of these fields related to the understanding and manipulation of matter at reduced dimensionality.

The vision for the Ilse Katz Institute at BGU is to establish it as a center of world-class scientific research through the development of nanoscience and nanotechnology. To realize this vision, we promote, enable and support innovative nanoscale research and education at BGU, by

- Recruiting and supporting leading researchers
- Attracting excellent students to the field
- Establishing and operating state-of-the-art research infrastructure
- Promoting industry-academia interactions in order to focus and implement research
- Developing and encouraging interdisciplinary research interactions through seminars and workshops
- Raising the necessary funding for the execution of this mission

Cutting-edge research in nanotechnology is carried out at the IKI in a variety of areas, such as energy conversion and storage, nano-photonics, nano-biotechnology, nano-medicine, biophysics, water purification and desalination, biological and chemical sensing, quantum science and technology, thin films and nano-materials synthesis, characterization and interactions.

In 2011, the INNI established the Focal Technology Areas (FTAs), a competitive program aimed at large-scale applied nano research carried out at Israeli institutions. The IKI is proud to be the only institute to lead two such multi-million five-year projects.

In support of nanoscale research at BGU and the entire academy, as well as by industry and government, the IKI provides state-of-the-art facilities for nano-scale fabrication and characterization.

Being part of BGU, we believe that the Institute must play a major role in the education of scientists and engineers, as well as in the transfer of knowledge to the broader community. We thus offer and support a unique and competitive interdisciplinary graduate program for PhD in nanotechnology, as well as a double major undergraduate program.



Prof. Yuval Golan, IKI Director