



Business from Nanotechnology

**Linking world-class
research and business**

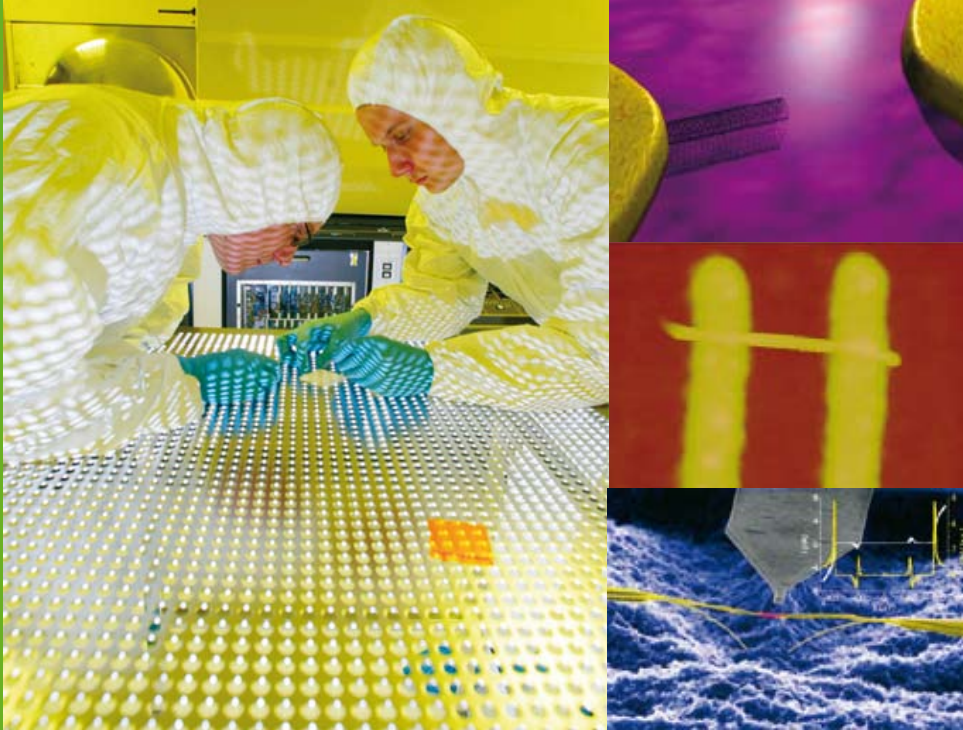


Image: Nanoscience Center

Centre of expertise in nanotechnology

An extraordinary business development environment

The presence of the modern Finnish innovation system and the highly developed and efficient regional business development environment together with the world-class science practised in the research units of the Jyväskylä Region form an extraordinary environment for new nanotechnology based business.

Support for global project preparation

The Ministry of Employment and the Economy of Finland funds a national Nanotechnology Cluster Programme. The aim of the program is to generate more business, based on the Finnish expertise in nanoscience and business. The cluster is active all around the country and forms a gateway to more than 90 % of the recognised Finnish nanotechnology actors.

In the Nanotechnology Cluster Programme there is still a third important form of actions in addition to business development and networking already described. It is the work carried out in the global network to develop new projects aiming to raise new global nanotechnology business. It is based on the support of the business development system, the network of the globally active companies and research units and a financial support for the Finnish partners.

Platform to build on

Nano Forum Jyväskylä is a regional informal society of world class business and research. It is a meeting forum for the companies of all sizes, the universities, the research institutions and the developers offering their know-how, conducting common R&D projects, and commercializing new applications. Several new companies have been commenced and new solutions in existing enterprises have been adopted.



Image: Nanoscience Center

Players in Nano Forum Jyväskylä are Ecocat Ltd, Honeywell Ltd, Jykes Ltd, Jyväskylä Innovation Ltd, Jyväskylä University of Applied Sciences, Metso Paper Ltd, Moventas Ltd, M-Real Plc, Nanoscience Center (University of Jyväskylä), Nokia Plc, Nokia Research Center, Patria Aerostructures Ltd, Pöyry Plc, Regional Council of Central Finland, Succes Factory Ltd, University of Jyväskylä, UPM-Kymmene Plc. and VTT

Global networking of the nanotechnology business players is now generating Global Nanotechnology Business Incubator. The partners in the network will be located on three continents in China, India, Russia, USA and Finland.

Links:

www.nanocluster.fi

www.oske.net

www.jyu.fi/nanoscience

New possibilities based on nanotechnology

Nanotechnology is purposeful engineering of matter at scales of less than 100 nm to achieve size-dependent properties and functions. Nanotechnology is an enabling technology. It provides an increasing amount of techniques and methods to find more economical and ecological value-added alternatives to technical applications. It has already generated new business and it is widely recognized that nanotechnology will transform many industrial segments in virtually all aspects – from means of production to properties of products and new business opportunities.

World-class expertise in nanoscience

The Nanoscience Center at the University of Jyväskylä has a truly unique interdisciplinary approach. Biology, chemistry and physics researchers are working together and operating shared research equipment in their common premises.

Nanoscience Center has a long history in designing, preparing and characterizing molecular based functional systems and devices. The interdisciplinary research groups have worked with different nanostructures, nanoparticles, carbon and hybrid nanotubes, supramolecules, biomolecules, DNA and other macromolecules with the most complete set of research equipment tools a modern research centre can offer. On the top of this, the strong theory and computation research actively collaborates with experimental research. One third of the Nanoscience Center's 14 professors and over 100 researchers are specialized in theoretical science.

Nanoscience Center has been very strong in basic research, but currently it also provides a solid foundation for companies with its needs oriented research and technology transfer. The Centre ensures availability of the well qualified personnel and experts to technology companies. It has already established a long tradition in cooperating with major Finnish industrial players such as Nokia, Metso, Stora Enso, UPM-Kymmene and Kemira.

Nanoscience Center forms the scientific foundations of Nano Forum Jyväskylä.



Image: Petteri Kivimäki

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