CONSORTIUM

Institute of Electronic Engineering and Nanotechnologies,
Republic of Moldova
http://www.iieti.asm.md

Technical University of Moldova,
Republic of Moldova
http://www.utm.md

EFP Consulting Ltd, Israel
http://www.efpconsulting.com

Academy of Sciences of Moldova,
Republic of Moldova
http://www.asm.md

University of Bristol,
United Kingdom
http://www.bris.ac.uk

Medizinische Hochschule
Hannover, Germany
http://www.mh-hannover.de

INFORMATION

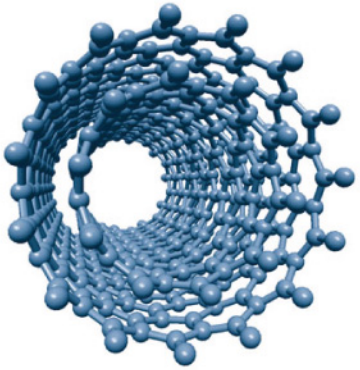
Duration

November 2010 to April 2013
(30 months)

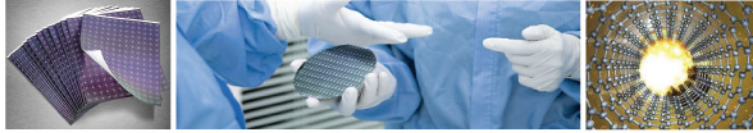
Contact

Prof. Ion Tiginyanu
Institute of Electronic Engineering
and Nanotechnologies
MD 2028, Chisinau,
Republic of Moldova

Phone: +373 22 274047
E-mail: tiginyanu@asm.md
project@mold-era.eu



MOLD-ERA is a project funded under the 7th Framework Programme for research and technological development of the European Union

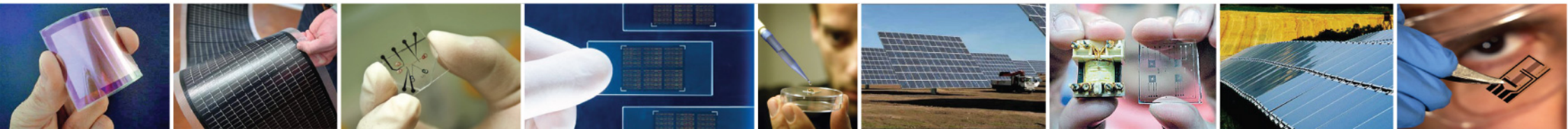


www.mold-era.eu

Preparation for Moldova's integration into the European Research Area and into the Community R&D Framework Programme on the basis of scientific excellence

7th Framework Programme
International Cooperation

SEVENTH FRAMEWORK PROGRAMME



OBJECTIVE

The objective of MOLD-ERA is to assist the Institute of Electronic Engineering and Nanotechnologies (IEEN) to develop and implement a research strategy that will expand its activities and increase its level of excellence and visibility, so that it can compete and collaborate with leading research institutions in Europe.

This will be achieved by creation of a technological infrastructure, training courses in nanobiotechnology and in preparation of projects for FP7, implementation of a high-tech culture and through integration into the European Research Area by developing close collaboration and networking with excellent European research centres and industrial companies.

The project focuses on a new research and training program for young researchers that will result in building of capacities at the intersection of fields related to nanotechnologies and bio-medical engineering. MOLD-ERA training activities will be opened up and integrate with activities in other relevant research institutions in Moldova to increase the project impact.

These objectives are in line with the forthcoming association of the Republic of Moldova to the FP7 Programme and will contribute to its success.

ACTIVITIES

The MOLD-ERA project is focused on the field of nanotechnologies. Its main activities include:

- Theoretical and practical courses organised in the fields of: biocompatibility of electronic and photonic materials; transformation of bio-signals into electrical signals and vice-versa; extra and intracellular bioelectric signalling; biotoxicity and related disciplines. Online Courses will also be developed and 2 summer schools will be organised.

- The nanotechnology infrastructure in the IEEN will be further developed by the acquisition of a plasma etching system and a multi-gas incubator bio-station to extend research area towards nano-bio related fields.

- Researchers and staff from IEEN, ASM, TUM and other research institutions in Moldova will receive training in FP7 including: FP7 rules and regulations, joining Consortia, proposal writing, etc.

- MOLD-ERA's network of regional, national and European contacts will be increased, based on activities of mutual interest and new collaborative links.

EXPECTED IMPACTS

MOLD-ERA will consolidate the role of IEEN in Moldova as the linking unit between universities, research institutions, technology parks and small and medium enterprises, in the area of nanobiotechnology. It will have a high impact in educating Moldovan society about nanobiotechnology, improving technology transfer to industry, and transferring scientific results related to nano-bio-engineering into economic benefits.

MOLD-ERA will improve the quality of training and equipment in nanotechnologies. This will result in increased job opportunities in Moldova for young scientists as well as better career opportunities, better work conditions and access to research infrastructures.

The successful realization of the MOLD-ERA project will increase the number of high quality graduates, collaboration and business opportunities and thereby increase the generation of wealth in Moldova.

Stronger links will be created between scientific communities in the EU and Republic of Moldova, including educational institutions and networks, contributing to the development of business matchmaking in the context of trade support.

Version 1, Feb 2011