

## NANOMATFAB

### NANOMATFAB and european Cooperation

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NANOTEchnology research center for new MATERIALS and FABrication processes (NANOMATFAB) is a virtual research center in the field of nanotechnology, consisting in a network of multidisciplinary research centres, operating in the fields of engineering (micro- and nanotechnologies), physics and chemistry.

The Center's main field of activity will be nanotechnology scientific research for developing new materials and new fabrication processes. Its mission is concentrating and developing the internal resources at national level in the field of nanotechnologies and orienting them toward applications. These developments will take place in the context of participating at FP6 and integrating in ERA.

#### The list of network centers

- C1: Microstructures and Microsystems Center for the Environment Monitoring and Biomedical Applications - National Institute for Research and Development in Microtechnologies, Bucharest;
- C2: Nanotechnologies Center (affiliated to the Romanian Academy) - National Institute for Research and Development in Microtechnologies, Bucharest;
- C3: Nano(bio)materials center - "Petru Poni" Macromolecular Chemistry Institute of the Romanian Academy, Iasi;
- C4: Physical and Chemical Micro-and Nanoprocesses Center, "Petru Poni" Macromolecular Chemistry Institute of the Romanian Academy, Iasi;
- C5: Laser-Surface-Plasma Interactions Center - National Institute for Research and Development for Lasers, Plasma and Radiations Physics, Bucharest;
- C6: Photochemical Lasers Center, - National Institute for Research and Development for Lasers, Plasma and Radiations Physics, Bucharest;
- C7: Oxidic Compounds and Materials Science Laboratory - "Ilie Murgulescu" Chemical Physics Institute, Bucharest;
- C8: Kinetics / Catalysis Laboratory - "Ilie Murgulescu" Chemical Physics Institute, Bucharest;
- C9: Conductive Polymers Laboratory - National Institute for Research and Development for Isotopic and Molecular Technology, Cluj-Napoca;
- C10: Fundamental and Advanced Research Center - The Romanian Academy, Timisoara subsidiary;
- C11: The Complex Fluids Institute - Politechnical University, Timisoara.

The 11 centers belong to 7 organizations: 3 national R&D institutes, 3 research units belonging to the Romanian Academy and one university.

#### Objectives:

- Cooperation in scientific research in the field of nanotechnologies, with applications in developing new materials and new fabrication processes;
- Assuring the connections between the Romanian scientific community and the European research;
- Cooperation in developing the field's strategy (project financed by the MATNATECH program between 2003-2004);
- Cooperation in making the technology transfer basis on national scale, by extending the network with other partners, including industrial ones.

NANOMATFAB is financed (2003-2005) from the MATNATECH R&D programme (see page 15) as a network of research centres, aiming at integration (the NoE, FP 6, see also CENOBITE project on page 12). The NANOMATFAB project was assembled by research units participating in "new instruments"-type proposals in FP6 (for integrated projects and networks of excellence), after the first stage of evaluation in priority 3 (NMP). About one third from the proposals going to the second stage are now in the negotiation process. The success rate was about the same for Romanian participants. However, for the NANOMATFAB partners the rate of success was about two times higher.

## 3N

### 3N -Centre of Consultance in Nanomaterials, Nanotechnology and Nanostructures

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**Partners: IMT-Bucharest; C. D. Nenitescu Foundation**

Offers consultancy and advanced solutions to the Romanian scientific community with activity in "nano" field. The "3N" Center intend to classify the information from this field and to use it in conformity with the European Community and national policy.

## NANOTECHNET

### NANOTECHNET - Network of Research Laboratories in Nanotechnology (coordinated by IMT-Bucharest)

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NANOTECHNET is a national (Romanian) network, set-up in October 2001 with 13 partners, as a more focused structure (on nanotechnologies) arisen from the existing network MICRONANOTECH, which was among the 54 European networks in nanotechnologies selected by the European Commission in 2001.

The network NANOTECHNET has a truly multidisciplinary character, grouping scientists specialised in physics, microelectronics, biology, chemistry, mathematics, etc. Also, multiple forms of organising the research are involved: the participants are national research institutes, research institutes of the Romanian Academy, research centres from universities and small companies involved in research activities.

After the first year, NANOTECHNET has 18 partners from six Romanian cities. The network already organized multiple training activities.