

## **INCDMTM expressed interest in these segments presented:**

- 1. SSA NEO ;**
- 2. SSA SWE**
- 3. SSA SST**

INCDMTM has experience in the conception, development and testing and rotary incremental encoder required for measuring angular rotation angle movable legs and arms, conception, realization and testing of measuring distance and displacement sizes with lasers, pressure regulators and devices measured pressure and temperature, conception, realization and testing of mechanical systems and interfaces with equipment for precision machining including laser processing using selective laser sintering machine type TITAN VERSION EOSINT M 270 aiming to manufacture models and prototypes (Titanium) .

The National Institute of Research Development for Mechatronics and Measurement Technique (INCDMTM) - Bucharest was set up in 1971. In 1995 the Institute was transformed in National Institute, by the accreditation of The Ministry of Research. INCDMTM activates in the scientific research area (both fundamental and applied) as well as in the technological development area comprising fine mechanics, mechatronics and intelligent measurement technique. INCDMTM is the only institute at national level achieving products in the mechatronics and intelligent measurement technique fields. It cooperates with the research of universities and other institutes and SMEs, both from the country and from Europe. The link between science, research and development makes possible the implementation of the innovative technical systems oriented to the future. The presentations within symposia, events, fairs both in the country and abroad are made by high level skilled and experienced researchers.

Since the integration into the EU, INCDMTM has aimed mainly at participating into as many competitions as possible and, consequently, respecting the eligibility criteria, to be accepted in partnerships and research teams. For reaching all these objectives, INCDMTM puts a great emphasis on quality management, ensuring that all the requirements it includes are respected.

The main expertise areas and activities covered by INCDMTM include:

- Intelligent mechatronic measuring techniques;
- Laser measurement
- Non-electric intelligent measurement devices;
- High precision mechatronic equipment for measurement and control of the industry components (e.g. automotive, mechatronics, aero-spatial industry, etc.)
- Renewable energy sources and energy efficiency
- Medical and biomedical mechatronic devices;
- Intelligent investigation and analysis micro-systems;
- Laboratory scientific research mechatronic devices ;
- Micro-mechatronics and mechatronics products;
- Robots and micro-robots.
- Bio-mechatronics equipment for human skeletal characterization (orthopedics, implantology, maxillofacial surgery, etc.);
- Intelligent high-tech products for measurement, characterization and monitoring of environmental parameters (water, air, soil);
- Advanced characterization techniques and methods, in static and dynamic regime, for physical and mechanical properties of the prosthetic systems and components;
- Benchmarking

The Research & Development Departments of INCDMTM:

- o Intelligent measurement mechatronics;
- o Biomedical mechatronics and robotics;
- o Micro and nanotechnology mechatronics;
- o Materials, multi-functional components and structures;
- o Strategies, Development, Marketing and Technologic transfer;

Other entities:

1. Excellency Center for pressure-temperature research.
2. Relay Centre of Technologic Transfer and Consulting (CRTTC – INCDMTM), was set up in 1998 by the order of The Ministry of Research and Technology. The centre is affiliated to ARoTT (The Romanian Association for Technologic Transfer).
3. Interregional Centre of Innovation and Technologic Transfer Chisinau-Iasi-Bucharest (CIITT), an inter- regional centre for innovation and technologic transfer associated with applicative universities and academics research institutions, from the Republic of Moldavia and Romania.
4. Training and Evaluation Center in Mechatronics.
5. National Scientific Cluster for Micro Nano Mechatronics.
6. Pole of Competitiveness in Mechatronics and Adaptronics - INDMECATRON.
7. Office for links with Industry - ILO.
8. Romanian Association for Benchmarking - AROB.
9. Doctoral School in Mechatronics - SDDM.
10. Benchmarking Center

Keywords:

Laser measurement  
Intelligent mechatronic measurements  
Robots and micro-robots  
RES  
Energy efficiency  
Non-electric measurement devices  
Medical and bio-medical systems  
Laboratory mechatronic systems  
Micro-mechatronic and mechatronic products  
Robotic and micro-robotic products.  
Benchmarking

**DIRECTOR GENERAL,**

**Prof.univ.dr.ing. Gheorghe GHEORGHE**

**Tel/ fax: +40212523437**

**e-mail: [geocefin@yahoo.com](mailto:geocefin@yahoo.com)**