



**Emergent BioSolutions Inc
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CONTACT

President
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STRUCTURE AND ACTIVITIES

Emergent BioSolutions Inc. is a profitable, multinational biopharmaceutical company dedicated to one simple mission - to protect life.

The company focuses on the development, manufacture and commercialization of biologic products, consisting of vaccines and therapeutics that assist the body's immune system to prevent or treat disease. Emergent's marketed product, **BioThrax®** (Anthrax Vaccine Adsorbed), is the only vaccine licensed by the U.S. Food and Drug Administration for the prevention of anthrax.

BioThrax is not authorized for use outside of the United States and India.

In addition to BioThrax, the company has multiple clinical and preclinical product candidates that are designed as medical countermeasures for use against biological agents that are potential weapons of bioterrorism and biowarfare. To view the company's product portfolio please visit www.emergentbiosolutions.com.

The company currently employs approximately 600 people with offices in the United States, the United Kingdom, Germany and Singapore.

BUYER'S GUIDE REFERENCES

119. / 121. / 204. / 303A. / 415. / 504A.



Enterprise Ireland

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ABOUT ENTERPRISE IRELAND

Enterprise Ireland is the Irish government agency responsible for the development and promotion of the indigenous business sector. Our mission is to accelerate the development of world-class Irish companies to achieve strong positions in global markets resulting in increased national and regional prosperity.

Our key focus, for Irish companies is covered under the following five areas of activity:

- Achieving export sales
- Investing in research and innovation
- Competing through productivity
- Starting up & scaling up
- Driving regional enterprise

Enterprise Ireland and Security Research in FP7

- In the context of FP7 Security Enterprise Ireland's remit goes beyond the indigenous business sector to include promoting FP7 Security to SMEs, Large Companies, Academics and End-Users.

- Enterprise Ireland coordinates the Irish Security Research Network (serenity) which was established in 2004 and now has over 520 participants.

- Enterprise Ireland cooperates with its counterpart Invest NI in Northern Ireland to take an all-island approach to FP7 Security.

Irish Organisations with Interests in FP7 Security

SMEs

www.columba.com (Successful in SCIIMS, VIRTUOSO)
www.skytekcomputing.com (Successful in SICMA)
www.necl.ie (Successful in SUPPORT)
www.tecdur.com (Successful in SPIRIT)
www.decawave.com
www.acracontrol.com
www.cckf-it.com
www.vigitrust.com
www.homenetcomm.com
www.teraproof.com
www.sensl.com

Large Companies

www-05.ibm.com/ie/ibm/overview.html#SWG
www.intel.com/ireland

Academic Groups

www.tcd.ie/Psychology/Nick_McDonald/index.html
(Successful in COPE, TASS - Human Factors)
www.oisrc.ul.ie (Successful in INFRA)
www.nuigalway.ie/biochemistry/staff/morrison/
(Successful in BOOSTER)
www.cs.tcd.ie/Stephen.Farrell/
www.tssg.org
www.tyndall.ie
www.ecit.qub.ac.uk
www2.ulster.ac.uk/staff/vb.novozhilov.html

End Users

www.garda.ie/ (Successful in Odyssey & EU-SEC II)
www.psnl.police.uk/ (Successful in INDECT)



NIRDTP Iasi

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BUYER'S GUIDE REFERENCES

100. / 101. / 103. / 107. / 110. / 111. /
121. / 200. / 205. / 210. / 219. / 408. /
501A. / 507A.

STRUCTURE AND ACTIVITIES

The National Institute of Research and Development for Technical Physics (NIRDTP Iasi) is located in Iasi, the second largest Romanian city, and belongs to the network of national R&D institutes coordinated by the National Authority for Scientific Research (Romanian Ministry of Education, Research, Youth and Sport). The institute has a tradition of over 55 years in the development of magnetic materials and applications based on them.

The main S&T research activities at NIRDTP Iasi are focusing on:

- synthesis of new micro- and nanodimensional materials by developing (or adapting) new innovative and advanced techniques: glass-covered amorphous and nanocrystalline microwires, magnetic nanowire arrays; magnetic micro- and nanopowders, including functionalized nanocomposites and mesoporous materials for bio-medical applications; multilayer thin films and new aspects concerning their magneto-transport properties;
- new bulk amorphous, nanocrystalline and/or nanocomposite materials;
- new types of applications based on advanced materials prepared at NIRDTP Iasi: (i) design and fabrication of new sensors for biomedical applications; (ii) the use of special magnetic materials and magnetotransport phenomena to design and produce new magnetic sensors (magnetic field sensors; vibrating, position and displacement sensors; torque and stress sensors; electronic surveillance labels/tags; safety systems; fluxgate sensors or hybrid combined systems); (iii) development of new sensors and actuators based on magnetoelastic phenomena; (iv) development of new applications for medicine and biotechnology, based on the magnetic carriers' technique; (v) design and fabrication of non-destructive control sensors.

The Laboratory for Testing Magnetic Materials and Devices is accredited by the Romanian Bureau of Legal Metrology, and is issuing certificates of conformance for various magnetic materials and devices.

The institute has specific competencies to ensure services and/or collaborations with third parties, such as:

- design and fabrication of equipments for preparation of amorphous and nanostructured materials, mainly for international customers;
- delivery of materials with special structures to national and international customers.

SECURITY SPECIALISATIONS

Prevention of remote activation of explosives using mobile phones

NIRDTP Iasi has a high level of expertise in the elaboration of novel solutions for the electromagnetic shielding of the frequency range that covers the entire spectrum employed by the mobile telephony networks in Europe and North America (0.8 – 3 GHz).

The solution consists in the fabrication of new composite materials based on magnetic microwires with the aim of neutralizing any possibility of remote activation of explosives using mobile phones, which is presently one of the largest security threats in the world.

Development of marking and identification magnetic systems

NIRDTP Iasi developed a complex system which permits the remote identification of the presence of a magnetic element consisting of an assembly of amorphous or nanocrystalline magnetic wires.

The system has two components: one which permits the recognition of a label (the marking magnetic label) and a second one, more complex, which permits the identification of a magnetic code attached to a card system (the magnetic coded card). A magnetic reading device is used for remote reading/identification of the two systems.

Life science and biosecurity

2 types of biosensors based on magnetic micro- and nanowires have been developed at NIRDTP Iasi.
– The newly developed giant magnetoimpedance (GMI) biosensor prototype is based on glass-coated amorphous microwires array and magnetic micro- and nanoparticles, being more sensitive to low magnetic fields and presenting smaller power dissipation per unit area. It is designed to be used for target bio-molecules detection, i.e. from antibodies or viruses to DNA detection.

– A different detection system is based on multilayer metallic nanowires (so called code bar nanowires structures), and their use in identification of biomolecules by optical or magneto-optical methods, combined or not with magnetophoresis. Magnetic metallic nanowires are also used as supports for the immobilization of the enzymes to be involved in the electrochemical biosensor functions.

Detection of explosives materials

NIRDTP Iasi developed a system for the detection and characterization of buried objects, with high accuracy, using a Ground Penetrating Radar and adequate software. In this way, different types of ammunition, including plastic mines and anti-personnel mines are detected and evaluated.

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