

Cittadella della Ricerca SCpA



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General Information:

CITTADELLA DELLA RICERCA S.C.p.A. is the manager of the Cittadella della Ricerca district, in which are concentrated public and private Agencies and Research Laboratories, Enterprises, University, Education Agencies. The aim of Cittadella della Ricerca S.C.p.A. is to guarantee the growth of the district related to the economic and social development of the territory.

It such sense it:

- promotes the adoption of new relational schemes among scientific research, technology, education and the economic and productive environment of the territory;
- diffuses the culture of the innovation and contributes to the improvement of practices to realize the technological transfer;
- gives value to the local resources and
- Vocations, contributing to insert them in new compatible economic and social dynamics;
- analyzes the emerging of new educational requirements and, in cooperation with the subjects born for this task, acts in order to satisfy them;
- favors and supports the interaction among the development actors;
- promotes, with institutions and economic operators, the processes of the internationalization (with particular attention to the Countries belonging to the Mediterranean sea);
- favors international exchanges in the field of Education and of Research & Development;
- organizes events in order to create new networks for the development of the territorial economic initiatives

Mitglieder Cittadella della Ricerca:

- Cetma www.cetma.it
- Data Management www.datamanagement.it
- Enea www.enea.it
- Ghimas www.ghimas.it
- IFC-CNR Lecce www.ifcc.cnr.it/lecce
- Isbem www.isbem.it
- Italcementi www.italcementi.it
- Optel www.optel.it
- Polymekon www.polymekonresearch.com
- Uni.Versus www.universus.it
- ETA Inform S.r.L. www.terin.it
- GEI – Inform S.r.L. www.terin.it
- BioIndustria S.r.L. www.terin.it



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www.cetma.it
http://www.cetma.it/en_Default.aspx

General Information:

Specific expertises:

-Materials and Structures Engineering:

The Department of Materials and Structures Engineering coordinates and carries out activities of applied research in the field of the advanced materials, encouraging the development of products and innovative processes.

By enhancing and integrating the in-house and its own partners' know-how in materials engineering, the department promotes the technological transfer towards various industrial sectors, such as civil, mechanical and transportation engineering. The department has skilled personnel in the field of materials engineering, experimental and numerical simulation activities.

-Information Technology:

Information Technology Department promotes applied industrial research activities and technological transfer in the field of Information and Communication Technologies (ICTs). It develops advanced information systems in various fields, such as the Product Engineering, Industrial Design, Logistics and Transport, Knowledge Management, Virtual Reality, Data Processing and Advanced Visualization. INFO department is composed by researchers and technicians specialized in ICTs with problem solving and working team skills.

-Industrial Design

Design, graphic and communication department develops technological and productive opportunities to be transferred to "product system" in terms of quality related to technical, ergonomic and environmental functionalities. Our design aim to answer with quality to the market requirements and to reduce costs during the product development. DEG department carries out different research activities and promotes them like competitive factor related to the technological and industrial culture of the territory. It works in synergy with the other departments supplying own competences in each phase of product development.

Offers to own partners:

- modelling and prototyping
- product design and environmental impact assessment
- multimedia planning
- Virtual Reality Based Systems
- Information systems for the industrial engineering

Members:

- | | |
|-----------------------|--|
| - ENEA | www.enea.it/com/ingl/default.htm |
| - Università di Lecce | www.unile.it/ateneo/default.asp?tevento=1 |
| - Alfa Edile Srl | www.synplast.it/home.php |
| - D'Appolonia SpA | www.dappolonia.it |
| - Infobyte SpA | www.infobyte.it |
| - IGEAM S.r.L. | www.igeam.it |
| - Telecom SpA | www.telcomitalia.it |
| - Cemit | www.cemitgroup.com |

IFC-CNR
Sezione di Lecce

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General Information:

The Salento center of the Clinical Physiology Institute (IFC) of the National Research Council (CNR) of Pisa - established in 1993 since 1998 has been directed by Alessandro Distante, professor of Cardiology at Pisa University.

The center aims to carry out biomedical research and advanced education as well as to provide high-tech services, in order to promote the growth of Italian Southern regions.

Main research fields:

- new advanced non-invasive imaging and virtual reality technologies
- protocols for managing cardiovascular risk factors
- knowledge Management, eLearning and Communication systems
- analyses of anti-inflammatory and anti-atherogenic efficacy of Mediterranean diet components; Integrated Systems and multi-institutional departments by means of ICTs
- new techniques for prevention, diagnosis and therapy, and cost/effectiveness analyses of related processes
- epidemiological analyses

Data Management SpA



Contacts

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www.datamanagement.it

General Information:

With a long running tradition, Data Management is a leading provider of IT solutions and services for Central and Local Government, Human Resources Management, Business and Public Utilities, Artistic and Cultural Heritage, Hardware Integration.

It has over 2.000 clients, more than thirty years experience in the field, consolidated technological partnerships and cutting edge know-how in next generation solutions (Web) and in outsourcing services. Data Management is organized in specialised Lines of Business able to deploy top value solutions to meet specific needs with definite costs and implementation timings; it enjoys a constant growth by combining competencies in specific industries as a solution company and by aggregating leading companies.

The company federates also key subsidiaries, including Gesam (consultancy services for labor related issues), Wel.Network (new generation SAP based solutions), CRC (restoration and management of artistic heritage) and Recasi (administration of IT Systems at Municipal level) providing one of the most qualified and comprehensive offers in the Italian market.

Contact:

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www.enea.it

General Information:

ENEA is a national agency that operates in the fields of energy, environment, and new-technologies, with a wide range of expertise and advanced facilities in its Research Centres. The Centre of Brindisi is provided with laboratories, offices, and a special plant for the testing of materials under severe conditions; inside the Centre, there are approximately seventy employees, together with scholars, graduates and trainees.

ENEA'S basic and applied research activities in the fields of energy, the environment, technology spin-offs and transfer are carried out by five Departments:

- The Environment, Global Changes and Sustainable Development
- Biotechnologies, Agro-industry and Health Protection
- Nuclear Fusion and Fission and Related Technologies
- Advanced Physical Technologies and New Materials
- Energy Technologies, Renewable Energy Sources and Energy Saving

In the labs of the Advanced Physics Technology and New Materials Department (FIM) about 50 people (researchers and technicians) are active in Material Science and Technology. They are organized in three labs:

- **Material synthesis and processing with the following methods:**
 - Ion implantation
 - Plasma-spray
 - CVI/CVD
 - Sol-gel
 - Vacuum deposition of thin films (Thermal, sputtering, plasma)
 - Langmuir-Blodgett deposition of thin films
 - Electron beam welding
 - Processing of polymer based composites
 - Colloidal synthesis of nano-materials
 - Electrolytic and electrophoresis deposition
- **Micro-structural and micro-analytical characterization:**
 - Electron microscopy (SEM, TEM, EDS, EELS, HRTEM, Remote operation TEM)
 - X-Ray diffraction (Phase analysis, residual stress, texture, surface diffraction, HR diffraction)
 - Surface analysis (XPS, SIMS)
 - Thermal analysis, (DSC, Cone calorimetry)
 - Probe microscopy (AFM/STM, nano-indentation)
 - Non-destructive testing
 - Optical spectroscopy
- **Performance evaluation of materials and devices:**
 - Burner Rig (CERTEM) for high temperature testing in corrosive-erosive environment of real scale components
 - Mechanical properties
 - Thermal properties (flame sensitivity)

- Optical properties
- Sensing properties

The following projects are presently running:

- Increasing the operating temperature of aeronautic engines:
 - Development of static turbine blades made with ceramic based composites
- Development of light materials for structural applications:
 - nano-reinforced polymer composites (clays, nano-carbon CNT)
 - Metallic foams (Al, Ti)
 - Fibre reinforced composites
- Development of sensors :
 - Detection of traces in aeriform and liquid media
 - Strain sensors by ion implantation in polymer-based materials
 - Patterned structures by local laser annealing of molecular precursors in polymer matrix
- Development of surface coatings
 - Polymer based Composite by electrophoresis
 - Hard multilayered coatings by vacuum evaporation
 - Optical coatings by sol-gel
- Synthesis of nanoparticles and nanomaterials
 - Colloidal synthesis for optical and photovoltaic applications
 - Cluster synthesis for catalytic application and for the growing of carbon nanotubes
 - Carbon nanotubes by CVD
 - Mg nanoparticles for hydrogen storage

Italcementi SpA



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General Information:

Italcementi Group is the fifth largest cement producer in the world with leadership in the Mediterranean area. Italcementi, one of the 10 largest Italian industrial companies, is included in S&P/MIB Index of Italian Stock Exchange.

Profile:

- the core business cement is combined with the production of ready mixed concrete and aggregates
- annual sales amount to about 5 billion Euro
- over 22,300 employees
- industrial network of 62 cement plants, 14 grinding centres, 4 stand-alone terminals, 147 aggregates quarries and 575 concrete batching units

Mission:

Developing technologies and materials capable of enhancing the reliability and durability of large infrastructures in a close cooperation with major local research institutes

Thanks to state-of-the-art equipment, forefront technologies and skilled personnel, the Brindisi Laboratory undertakes research & development projects regarding products and innovative materials in synergy with CTG, Italcementi Group Technical Center, one of the most important research centers in Europe. Furthermore, lab activities are also geared to providing technical assistance to customers and training to university students about to graduate and interns.



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General Information:

ISBEM - Euro Mediterranean Scientific Biomedical Institute - is a non profit consortile research company, created by 14 Partners consisting of Italian and Foreign Universities, Health Centers, Science and Technology Parks, Municipalities, and Banks.

The objectives of ISBEM are:

- Creating an advanced scientific pole to activate research, development and training in the biomedical and sanitary sector ;
- Favoring the integration among adjoining systems through biomedical research (clinic, epidemiological, managerial), bringing near researchers, health workers and industrialists, simply by experimenting and scientifically validating innovations;
- Increasing the rate of scientific projects in Southern Italy and strengthening the transfer of knowledge, making lever on the acquired competences and on the external availabilities that can be activated.

The activities are:

- new health information technologies
- non-invasive imaging, eLearning and virtual reality technologies
- innovative methodologies and approaches, such as: protocols and diagnostic, therapeutics and rehabilitative techniques, and optimisation of related processes and pathways; epidemiology; quality standards; economics; technology communication and knowledge management

Partners

Services Suppliers:

- Commune of Ceglie Messapica www.comune.ceglie-messapica.br.it/
- SALUS Ltd. Clinic www.casadicurasalus.it/struttura/struttura.html
- Private Nursing Home "CITTA' DI LECCE" n.d.
- Nursing Home "SANTA MARIA S.p.A." www.clinicasantamaria.it
- "ITAL-TBS" www.italtbs.com
- "Pro Medicaire Ltd." www.promedicare.it
- "OTP Ortopuglia Ltd." n.d.
- "C.O.T. Centro di Ortopedia Tecnica Ltd." n.d.
- ASL BR/1 www.asl.brindisi.it/
- ASL LE www.ausl.le.it
- National Hosp. Rikshospitalet Univ. of Oslo
www.rikshospitalet.no/portal/page/portal/no/forsiden/globale/english
- "UNIVERSUS CSEI" www.universus.it/ue/index1.php

Research:

- University of Antwerp www.ua.ac.be/main.aspx?c=.ENGLISH
- University of Salento www.unile.it
- University of Oslo www.uio.no/english/
- University of Pisa www.unipi.it/english/index.htm
- LUM Jean Monnet Casa Massima (BA) www.lum.it/
- PASTIS-CNRS S.C.p.A n.d.

Financial Availabilities:

- Bank Monte dei Paschi di Siena www.mps.it

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Associates of the consortium:

- Consiglio Nazionale delle Ricerche	www.cnr.it/sitocnr/Englishversion/Englishversion.html
- Consorzio CSGI	www.csgi.unifi.it/~csgi/index.html
- Università degli Studi di Lecce	www.unile.it
- Assing S.p.A.	www.assing.it/cms/index.php?lang=en
- SELEX S.p.A.	www.selex-comms.com/en/
- Galileo Avionica S.p.A.	www.galileoavionica.it/trimprob/index-ita.html
- Alcatel Alenia Space S.p.A	n.d.
- Centro Ricerche FIAT	www.crf.it
- MR&D Institute	www.mrd-institute.com
- Centro Ricerche Plast-Optica	www.crpo.it
- Istituto Trentino di Cultura	www.itc.it/irst/
- Cantina Due Palme S.c.a.r.l.	www.cantineduepalme.it/Inglese/Duepalme-uk.htm

General Information:

Focus:

- Optoelectronics
- Microelectronics
- Microsystems

Application fields:

- ICT
- Multimedia
- Environment
- AgroFood
- Biomedical

Main goals:

- To set-up R&D activities that integrate the know-how of Public Institutions with industrial needs in order to increase the private Consortium partners competitiveness;
- To help private partners by optimizing, in the OPTEL Lab, technological processes and devices prototyping;
- To realize a national technological reference point in selected fields of interest;
- To support, by technology transfer actions, the socio-economical development of the geographic area near the OPTEL Lab



Polymekon Srl

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Laboratori:

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www.polymekonresearch.com

General Information:

Polymekon Srl is an Italian research and development company which focuses on the production of synthetic polymers for the medical sector.

Polymekon's mission is to provide innovative and high quality products to the medical and scientific world, products that offer simpler and safer solutions for reconstructive surgery and aesthetic augmentation.

Polymekon's staff of researchers works on the cutting edge, using its broad experiential base in biology and experimental chemistry to produce pharmaceutical products and devices applicable in plastic surgery, urology, orthopaedy and several fields of biomaterials applications.

Polymekon is the owner of three European patents and one patent in the USA. The 'in-house' research staff works closely with major clinical departments in several internationally connected Universities Polymekon's medical-scientific department is always striving to direct pioneering efforts towards practical applications and clinical needs.

Polymekon is proud of its reputation for quality, support, and innovation. Polymekon has a certified quality system according to EN ISO 9001 and EN ISO 13485.



Ghimas S.p.a.

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General Information:

Ghimas was established in 1947 as a pharmaceutical company. In 2004 it opened a new facility for the production of dental Medical Devices and dietary supplements. Ghimas also conducts advanced focused research in the fields of biology, chemistry, pharmacology and nanotechnologies in collaboration with important Universities and Research Centres in Italy and the rest of the world.

In recent years, this company in Bologna has achieved important successes thanks to new research projects in the field of absorbable synthetic biomaterials, both in the area of biomimetic nanostructures and in the realisation of scaffolds for stem cells destined for tissue regeneration.

Ghimas has launched Fisiograft in over 50 countries, an original absorbable synthetic biomaterial for bone growth and reconstruction, for the preparation of future implant sites and to increase available bone volume in the treatment of periodontal defects. One of Ghimas' other international successes is Chlo-Site, the first chlorhexidine gel for the treatment of periodontal infections and peri-implantitis

ETA INFORM S.r.L.
Gruppo GEI



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General Information:

ETA-INFORM SRL is a company of GEI Croup that created a Development Software Laboratory with ingrained competences above all in the public sector. Step by step, Eta-Inform Srl widened its activities until becoming a System House that operates in the computer science and technological innovation with particular specialization in the solution of typical problems of Banks, Assurances, Manufacturing Companies and Public Administration. It is an Agency of Learning recognized by "Regione Puglia" and AICA where it is Test Center for the release of the ECDL. It is certified ISO 9001-2000 for the activities of software development and ICT learning.

It is in Consorzio TERIN (Terziario Innovativo) where there are 16 companies on the national territory (www.terin.it) with professional experiences in the field of the ICT and engineering. In It ETA-Inform Srl is engaged for the learning activity.

GEI – Inform S.r.L.
Gruppo Gei



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General Information:

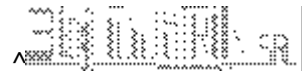
GEI-Inform Srl is a company of GEI Group that is taken care of scientific and technological search, applied in the fields of computer science, electronics, data transmission and robotics. It is specialized in the planning and the development of software, multimedial systems and the web solutions.

GEI - Inform Srl offers services like:

- EDP and organizational advising
- Plan and realization of Informative System
- Software Development
- Network improvement with different typologies

It has competences on various platforms, like SAP, and it supplies the best solutions personalized to the real customers requirements. It is in Consorzio TERIN (Terziario Innovativo) where there are 16 companies on the national territory (www.terin.it) with professional experiences in the field of the ICT and engineering. In It GEI-Inform Srl is engaged for important developments plans.

Bioindustria S.r.L.
Gruppo GEI



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General Information:

Bioindustria Srl is a company where the activity of search, experimentation, fabrication, commercialization, maintenance of biotechnologies world and its services wanted by Public Administration, agencies, and privates is developed.

Now it is strongly engaged, by the consorzio TERin (Terziario Innovativo www.terin.it) in projects for the energetic saving and prototypes for the alternative energy. A staff of technicians is experimenting and realizing, with the approval of the European Economic Community, an innovative project on the clean and radiating energy.

Its activity of search includes also important fields of our territory, like agriculture, ambient and alimentary, so Bioindustria Srl contributes to the improvement of the products and the safeguard of the health.