Partner Search Alert
24 September 10

Partner Search 1

Theme:	New Production Technologies
Title:	Integrated Direct Part Marking (DPM) for Rapid Manufacturing (RM)
Deadline:	20/10/10
Organization type:	University
Country:	Germany
Abstract:	A German university research team is to develop a new technology that ensures biunique identification of Rapid Manufactured (RM) products, during generative fabrication without additional efforts on application. The proposal will be submitted under FP7-2011- SME-BSG with deadline 8/12/2010. Industrial and research partners are sought in the following fields: SMEs dealing with production of Rapid Manufacturing machines, materials and software and a RTD performer(non-German)with RM/DPM experience.
Description:	A German University Research team is to develop a new technology that ensures biunique identification of Rapid Manufactured (RM)products, during generative fabrication without additional efforts on application. The aim is to develop a novel technology that ensures biunique identification of rapid manufactured products, during generative fabrication without additional efforts on application. The proposed solution fulfils the quality guidelines, such as Machinery Directive. Marks based on optical and electromagnetical reading devices are in focus of the investigation. Therefore we are seeking for partners in the fields of: - adaptation of rapid prototyping machines and its control systems; - adaptation of optical reading system such as multi code readers to special light conditions; - adaptation of RFID transponders to special heat and chemical resistance; - CAD-based programming solutions mainly handling of standard transfer formats of volume models.

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	At the end of 2009 the new Machinery Directive 2006/42/EG came into operation. The guideline has to prevent harm to the human health, damages to the machines and the environment. The directive regulates necessary arrangements for manufacturers to document the security of the machines and produced parts before they are sold on market. Rapid Manufacturing becomes recently more convenient for fabrication. It implies the chance to produce personalized objects for individual needs. The lot size of one is not inefficient anymore. But an effective quality management is not yet established in order to fulfil the requirements of the Machinery Directive. The necessity of a biunique marking soon will be essential for manufacturers, who want to sell generative fabricated products. The German university's investigations have shown, that the generative process of Rapid Manufacturing is able to combine part fabrication with direct part marking (DPM) in one assembly. This process is defined as generative DPM. Until now printing of adhesive labels or common direct part marking methods required additional time and were cost consuming. The proposed work develops a technology to overcome this disadvantage by two approaches mainly. The RFID transponder technology and optical readable marks enable an innovative automatic identification. Considered methods also assure authenticity for lifetime of individualised products fabricated by digital manufacturing. Due to investigate possible applications to a challenging problem and bring pilot technology to market, the German university is seeking industrial partners and research organisations. A successful realisation of this project brings a significant competitive advantage to our industrial collaborators. The list of specific partners looked for includes: - Supplier for Rapid Prototyping machines and controller software, - Supplier and developer of materials for rapid technologies(mainly plastic), - Supplier for CAD-based software engineering (handling of standardised transfer formats), - Developer of optical reading devices (multi code readers), - Research organisation with expertises in rapid technologies with experimental equipment. Technical Specifications / Specific technical requirements: Call title: Research for the benefits of SMEs Call identifier: FP7-2011-SME-BSG Publication date: 1.September 2010 Deadline for Expressions of interest: Mid October 2010 Deadline for submission: 8.December 2010
Partner type:	Type of partner sought:SMEs as endusers, RTD performer. Specific area of activity of the partner: Suppliers for Rapid Prototyping machines and controller software,suppliers and developers of materials for rapid technologies(mainly plastics),suppliers for CAD-based software engineering (handling of standardised transfer formats),developers of optical reading devices (multi code readers). Research organisation with expertises in RM technologies with experimental equipment (non German). Task to be performed by the partner sought: joint development under

	the funding scheme "Research for the benefits of SME".
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Partner Search 2

Theme:	ICT
Title:	Internet-connected Objects in Smart Enterprise Environments
Deadline:	15/10/2010
Organization type:	Research Center
Country:	Spain
Abstract:	A Spanish research centre is preparing a proposal under the Objetive ICT 2011.3.2 Smart components and smart systems integration. The aim of this project is to improve the architectures, technologies and communication methods in Smart Enterprise Environments, and connect them to smart buildings, using them as a first selling point. Partners are sought for a consortium for the project.
Description:	The aim of the IcO-SEE Project is to develop a communication architecture for Smart Enterprise Environments, in order to connect them to smart houses, which the enterprise services are targeted to. This will provide a mean to perform direct deliverance of the products to the final users in their home. Smart Environments can be divided into two categories: Smart Home

	Environments and Smart Enterprise Environments. The Smart Home Environment is based on a communication network which connects key electronic appliances and services within the smart home and allows them to be remotely controlled, monitored or accessed. Smart Enterprise Environment is defined as a work environment which combines virtual, physical and human environments, integrating the customer services and modern logistics. Current enterprise environments face several challenges. Firstly, the number of intelligent devices is increasing rapidly in enterprise environments, causing the integration of new types of devices and applications into existing enterprise networks to be insufficiently supported by low-level proprietary protocols. As a consequence, third party application designers often deal with huge challenges in order to build advanced applications based on such devices. Likewise, the integration of intelligent, semi-autonomous devices, such as service robots, into this sort of networks represents major limitations. By abstracting communication issues into client and server (user and things) layers, integration of devices into smart environments would only consist in the specification of the very solution of the original problem to be solved. Secondly, sensor based technologies are still immature and not effectively incorporated in many business areas. IcO-SEE Project recommends using these deployable devices in smart environments for objects location, sending advertisements to the smart shopping carts display and securing the living of elderly people in service home enterprises. Finally, it is also worth to note the convenience of improving smart objects capabilities by offering a communication bridge for external service consumption. As an example, mobile devices, such as wheelchairs, could be recognized and controlled by intelligent appliances by means of artificial vision connected to Smart Enterprise Environments. Any other mobile device could take advantage of this approach. Separation of responsibilities will allow a modular and distributed design of the architecture, thus easing testing, integration and maintenance. The impact of this Project will be experienced in everyday common activities, such as going shopping to the mall, products ordering from home and helping handicapped people in crowded places. Technical Specifications / Specific technical requirements: Funding Scheme: STREP Call 7: it is not still open Budget: 4.5 M??? Proposal is under development and partners with expertise in any aspect of the described topic are required.
Partner type:	Type of partner sought: Universities, SME, Industrial Partners, Technological Centers, End users. Specific area of activity of the partner: Network Companies, Domotics Companies; Robotic Software; Electronic Commerce; Mobile Network Operators; Technological Centres;Logistics; Consulting Companies. Task to be performed by the partner sought: Technical co-operation.
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Partner Search 3

Theme:	New Production Technologies
Title:	New non-destructive inspection tool based on digital radiography technology in powder metallurgy
Deadline:	31/10/2010
Organization type:	Research Center
Country:	Hungary
Abstract:	A Hungarian research centre is inviting SMEs with experience in digital radiography to the FP7 Research for the Benefit of SME Associations program. The aim, originated by the European Powder Metallurgy Association, is to develop a new inspection tool based on digital radiography technology for the improved assessment of green parts. The SME is expected to support the development of the inspection tool by providing consultancy. Manufacturers of digital radiography equipments are also considered.
Description:	The Hungarian research centre is inviting SMEs with experience in digital radiography to the FP7 Research for the Benefit of SME Associations (FP7-SME-2011-BSG) program. Powder metallurgy is the major manufacturing route for a wide range of industrial parts such as transmission and gearbox steel parts for automotive, cemented carbides and high speed steels for metal, wood or stone-working, magnets and soft magnetic materials, fine ceramics, refractory metals, bearings, etc. All these parts are produced by cold pressing a powder in a die and sintering the resulting green body in a furnace. A tool set for die pressing costs between 1.000 and

100.000 ???. The design of a tool set for a new product is made with a trial-and-error procedure that generates surplus costs (up to 50% of the initial tooling costs) and delays (several weeks or months). Furthermore, the optimization of the process is time consuming, due to the lack of fast and systematic systems instruments and procedures for the inspection of the material.

In addition to the costs related to the development of the pressing tools, a major concern in powder metallurgy relies on the unpredictable formation of defects on the parts. While shrinking defects, and even surface cracks, are often detectable by inspection, internal defects are hard to detect. During the very early stage of compaction, the powder redistributes itself by flowing between sections of the die cavity. However, when the applied pressure is increased the powder movement gets restricted and shearing can occur unless the magnitude and the direction of the pressure are properly coordinated. Shearing can result in a density gradient within the parts. The density gradient is not always severe enough for an associated crack to form upon ejection.

Unfortunately, nowadays there is no reliable method able to inspect parts and detect local defects in green state powder metallurgy parts. Test inspection systems, such as eddy current and magnetic bridge testing, magnetic particle inspection, X-ray radiography, gas permeability testing, and gamma ray density determination, have been demonstrated inaccurate, and often also too expensive for being introduced in the industry. The lack of an adequate inspection system has important implications from the point of view of production, since it increases the number of rejected parts after the sintering process. It will be possible to detect surface and sub-surface flaws. On the other hand, the widespread use of powder metallurgy parts instead of parts produced by other competing technologies (casting, mainly), is often hindered by the impossibility to ensure the absence of defects in powder metallurgy parts.

The availability of a reliable inspection tool for detecting defects would result in substantial savings for the European industry through the reduction costs associated with the production and control of the parts. Besides, it would contribute to improve the reliability of powder metallurgy parts, thus increasing their competitiveness in front parts produced by alternative methods, and opening new markets demanding elements with accurate and well controlled mechanical properties.

Aims of the project:
-Using digital radiography for the examination of green parts
- Reduce manufacturing cost and time by using a rapid non-invasive inspection tool
- To create a fully automated system which is able to create density and porosity maps of the desired green parts

As the system will be based on the combination of digital radiography and image processing partners are welcome from the following fields:
- Manufacturer of test equipments
- Development of image processing algorithms and/or decision supporting system
- Industrial process development

Technical Specifications / Specific technical requirements:
Call type, programme: FP7 ???Research for the Benefit of SME Associations???

	Call identifier: FP7-SME-2011-BSG Deadline: 08.12.2010 Proposal development stage: 70% is ready, 2 partners are missing Requested EU funding: ~3 million ??? Percentage of EU funding: ~70% Main task: support the development of the inspection tool by providing consultancy ORGANISATION: Innostart National Business And Innovation Centre COUNTRY: Hungary DEADLINE: 31/10/2010 LIST OF KEYWORDS TECHNOLOGY Moulding, injection moulding, extrusion, sintering, Metals and Alloys, Other Non Destructive Testing MARKET COLLABORATION Joint further development
Partner type:	Type of partner sought: SME Specific area and tasks to be performed: Manufacturers of testing equipment for the powder metallurgy industry to perform development of a new non-invasive inspection tool Distributors / manufacturers / maintainers of digital radiography equipments for system integration tasks.
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Partner Search 4

Theme:	New Production Technologies
Title:	Industrial applications of thin-film coatings
Deadline:	25/08/2011
Organization type:	Industry
Country:	Germany
Abstract:	A German R&D service centre specialised in surface engineering and thin films is pooling competencies in the areas: thin film deposition, coating application, film characterization and surface analysis. The research institute is searching for partners interested in participating in a research for SME projects in the areas: mechanical/ automotive engineering, aerospace, tools, energy, glass and facade, optics, information and communications, life science and ecology coordinated by the institute.
Description:	The German industry orientated R&D centre aims is to provide various types of surfaces with new or improved functions and, as a result, help create innovative marketable products. At present, the institute's business segments are mechanical and automotive engineering, aerospace, tools, energy, glass and facade, optics, information and communications, life science and ecology. In pursuing these business segments the institute utilizes its competencies in the following fields: Low pressure processes; electrical and optical coatings; super-hard coatings; high-power impulse magnetron sputtering (HIPIMS), coatings on plastics, atmospheric pressure processes, micro and nano technology, friction reduction and wear protection, corrosion protection, analysis and testing. The thin film coatings comprise carbon coatings (CVD diamond and DLC), ceramics (e.g. nitrides, oxides, carbides, borides), metals, plastics and other. Additionally, the institute is developing surface modifications, like plasma diffusion, hardening, structuring (e.g. lithography) and adding of chemical functional groups. The technological topics of the research institute are: surface pre-treatment, thin film development, process technology (including process diagnostics, modelling and control), surface analysis and thin film characterization, application oriented film design and modelling, system design and technology transfer. The research and development service centre is searching for SME partners who are developing new products which need thin-film coatings, are active in the development of industrial applications of thin-film coating processes and end-users of thin-film coated products. Technical Specifications / Specific technical requirements: Research for the Benefit of SMEs Call Identifier: FP7-SME-2011-BSG Publication Date: 20 July 2010 Deadline: 08 December 2010 Tasks and problems, that can be approached with thin-film coatings and

	surface analysis are e.g.: - wear - friction (decrease or increase) - self-lubricating, solid lubrication - adhesion - surface engergy (hydrophilic or hydrophobic) - anti-fouling - corrosion, chemical wear - electrochemical processes - chemical termination of the surface - electrical conduction / resistance - optical transparency, filtering, reflection, adsorption - color, visual appearance - microstructures - micro sensors - roughness, texture, topography of the surface - conversion of solar energy - photocatalysis - biocompatibility - chemical termination of the surface - cleaning - surface hardening - thermal barrier. ORGANISATION: Investitions- Und F??rderbank Niedersachsen Gmbh - Nbank COUNTRY: Germany DEADLINE: 25/08/2011 LIST OF KEYWORDS TECHNOLOGY Coatings, Forming (rolling, forging, pressing, drawing), Machining (turning, drilling, moulding, milling, planning, cutting), Machining, fine (grinding, lapping), Surface treatment (painting, galvano, polishing, CVD, PVD) MARKET COLLABORATION Joint further development
Partner type:	Type of partner sought: SME Specific area of activity of the partner: Tool manufacturers, work shops or factories, manufacturer of mechanical engineering parts, automotive manufacturer and supplier, manufacturer of glass products (sheet, lenses, optics), job coating companies, manufacturer of coating reactors or coating plants. Task to be performed by the partner sought: Development of products that need thin-film coatings, industrial application of thin-film coating processes, endusers of thin-film coated products. Size: SME Experience: Experience in the development of new products which need thin-film coatings, in development of industrial applications of thin-film coating processes and use of thin-film coated products.
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Partner Search 5

Theme:	Health and Biomed
Title:	Relational database design and hosting
Deadline:	6/10/2010
Organization type:	University
Country:	United Kingdom
Abstract:	A UK University is looking for partners for an FP7 application under the topic HEALTH-2011.2.3.1-4 Development of Multi-Analyte Diagnostic Test. They seek SME partners with relational database design, hosting expertise and relation searching expertise. They will be required to collect data from clinical sites and compiling the relational database. The project aims to find new responses to the current diagnosis of secondary infection in hospitals post operations.
Description:	The project requires expertise on relational database design and hosting for the automatic collection of data from the clinical sites across EU and compiling the relational database. The company will have an platform-agnostic approach to database design and management to allow data to be collected efficiently at each clinical centre. The company will design the database interface for all project users, ensure integrity and security of the data (mindful of

	ethics data storage requirements). Relations between clinical outcomes, mathematical model and statistical analyses will be constructed to produce an end-point diagnostic. The organisation will also be expected to undertake relation searching for the correlated response of the patients, guided by the mathematical project lead. Technical Specifications / Specific technical requirements: The proposed project aims to respond to the FP7 Call Topic HEALTH.2011.2.3.1-4 Development of multi-analyte diagnostic tests. FP7-HEALTH-2011-two-stage. The maximum requested EU contribution for the project is EUR 3 000 000, the proposed project is at the limit of this amount. All other consortium partners have been identified. Deadline: Wed, 13 Oct 2010 17:00:00 (Brussels local time). ORGANISATION: GWE Business West COUNTRY: United Kingdom DEADLINE: 06/10/2010 LIST OF KEYWORDS TECHNOLOGY Archivistics/Documentation/Technical Documentation, Data Processing / Data Interchange, Middleware, Databases, Database Management, Data Mining, Knowledge Management, Process Management MARKET COLLABORATION Joint further development
Partner type:	The organisation required should be an SME with expertise in database management. They will be expected to design and manage a database to allow data to be collected efficiently at each clinical centre. The company will design the database interface for all project users, ensure integrity and security of the data. Previous Framework Programme experience would be preferred but is not compulsory.
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Partner Search 6

Theme:	New Production Technologies
Title:	Clinical and mechanical trials of new composite hip joint endoprosthesis
Deadline:	29/8/2011
Organization type:	SME
Country:	Polland
Abstract:	A Polish SME active in plastics manufacturing sector invented a new model of hip joint prosthesis which surface is covered with PE (polyethylene). The company is looking for research partners among RTD entities to perform endurance research (static and dynamic) and hospitals specialized in regenerative medicine to carry out clinical trials of the invention within 7th Framework Programme, Capacities: Research for SMEs. The partners are expected to collaborate in testing of novel endoprosthesis.
Description:	The aim of this project is to eliminate disadvantages of so far used hip joint prosthesis made of other materials. There are frequent cases of stratification after certain time of exploitation of currently used prosthesis. The main problem with metal prosthesis is a corrosion process and penetration of metal ions to organism. This results in several intricaces like inflammatory reactions, metalosis and degradation of tissues leading to malfunctions of implants and to need of revised operations. Clinical trials of prototypes should confirm that new prosthesis ensures good bio-affinity with human organism. A Polish company is looking for a coordinator and is ready to play a role of partner in a research consortium. Technical Specifications / Specific technical requirements: Call reference: FP7-SME-2011-BSG (Benefits of Specific Groups) Programme Capacities; Research for SMEs, Deadline 08/12/2010 Proposal at initial development stage. Percentage of EU funding: up to 50 %. Requested EU funding approx. 3 MEUR. Partners from industry or research sector should perform tests of physico-mechanical endurance. Partners from medical sector are expected to carry on trials on living cells cultures and clinical research.

	ORGANISATION: Foundation For Promotion Of Entrepreneurship COUNTRY: Poland DEADLINE: 29/08/2011 LIST OF KEYWORDS TECHNOLOGY Materials Technology, Plastics, Polymers, Medicine, Human Health, Clinical Research, Trials MARKET COLLABORATION Joint further development, Absolutely novel process
Partner type:	Type of partner sought: RTD performers, clinical hospitals. Specific area of activity of the partner: Research on materials technology; clinical research. Task to be performed by the partner sought: testing of physico-mechanical endurance; trials on living cells cultures.
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Partner Search 7

Theme:	SSH
Title:	Model of customized indicators to select partners for the creation of cooperation network
Deadline:	5/7/2011
Organization type:	SME
Country:	Spain

Abstract:	An Andalusian SME of the sector of the consultancy services, specialized in the implementation of cooperation networks, is looking for SMEs from all over the EU to take part in a research project focused on the socio-economic field. The aim of the project is the development of a model of indicators, in order to create cooperation enterprise networks. The tasks performed by the partner will be the validation of the project results, knowledge acquisition and dissemination tasks.
Description:	The enterprise asking for partners is a firm specialized in collaborative projects and organizations. It is established in Seville, Spain. Nowadays, the main activity areas of the company are the Consultancy services, the Local Development and the Cooperation Networks, although it is also keen on fostering a Research and Development area, in order to strengthen its business. The company is interested in cooperation with other entities to develop a model, which allows to select compatible partners within a concrete scope in order to create enterprise cooperation networks. This project is focusing the Research for the Benefit of SMEs call. The RTD performers to made up the consortium for this project are already chosen: 2 European universities, a consultancy company and an institute speciallized on social research. As far as the involved SMEs are concerned, they should be working in the leatherworks activity field. Technical Specifications / Specific technical requirements: - The sought SME would like to participate in a Research for the benefits of SMEs project. - The welcomed SMEs should work in the leatherworks business field, and they should be interested on cooperation systems and collaborative work with other SMEs from the same economic sector. - The project is still in its initial stage: development of the idea and consortium creation. The project proposal is being prepared for its application for the Research for the Benefit of SMEs call, which is expected to be opened in 2010. The proposal is in its initial stage: the idea is defined and the partners for the consortium are being searched. There is not any patent. The expected European Commission funding is about the 60% of the project cost.
Partner type:	Type of partner sought: SMEs Specific area of activity of the partner: SMEs from the Leatherwork field of activity. Task to be performed by the partner sought: Participation as a SME in a Research for the Benefit of SMEs project: validation of the project results, knowledge acquisition, dissemination tasks, participation in training sessions.
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Partner Search 8

Theme:	New Production Technologies
Title:	Reuse and recycling of construction and demolition waste for pavement construction
Deadline:	9/9/2011
Organization type:	SME
Country:	Spain
Abstract:	An Andalusian company working in the field of construction, both buildings and infrastructures (roads, railways, ports, airports and hydraulic works) looks for entities for involving in a project focused on the achievement of significant environmental benefits by providing technologies and tools that contribute to increase the use of recycled aggregates from high-volume of Construction and Demolition wastes in urban pavement construction. They look for demonstrators and SMEs in this field.
Description:	The Andalusian company is the coordinator of the proposal. The company's activities are structured into seven business lines: Civil and transport engineering, Geotechnical Engineering, Building, Construction Material Quality Control, Health and Safety Coordination, Construction Product Certification and Research, Technological Development and Innovation. The objective of project is to achieve significant environmental benefits by providing technologies and tools to facilitate a significant increase of the use of recycled aggregates from high-volume Construction and Demolition Wastes (C&DW) in urban pavement construction and maintenance. Therefore, the project will:

	1. Develop a set of technologies to enable the use of recycled C&DW in urban pavements in order to ensure that the quality of the recycled aggregates produced with C&DW is to equal or better than the quality achieved with virgin aggregates for the same applications (urban pavement) at comparable cost. 2. Demonstrate the technologies in a number of 'live' cases in several countries; 3. Provide a structured and harmonized set of guidelines for policy measures for national, regional and local authorities to motivate industry to use recycled C&DW for pavements construction and maintenance. They are looking for demonstrators and SMEs in this field. Technical Specifications / Specific technical requirements: Call identifier: FP7-ENV-2011-ECO-INNOVATION Topic: ENV.2011-3.1.9-1 Eco-Innovation Deadline: 16 November 2010 Requested EU funding (approximatley): 3.300.000.
Partner type:	Type of partner sought: Demonstrators, SMEs. Specific area of activity of the partner: Properties and composition Recycled Aggregates; Life Cycle Analysis (LCA); Development of new recycling technologies. Task to be performed by the partner sought: To establish a cooperation agreement for research and development activities related to the project.
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Partner Search 9

Theme:	Industrial Technologies
Title:	Extensive Green Roofs in European Countries
Deadline:	9/9/2011
Organization type:	SME
Country:	Spain
Abstract:	An Andalusian engineering and quality control company that works in the field of construction, both buildings and infrastructures (roads, railways, ports, airports and hydraulic works) is looking for entities for participating in a project which purpose is to promote and encourage the construction of green roofs in other countries where its use is not common. They are looking for SMEs and demonstrators in this field for joining to the consortium.
Description:	The company activities are structured into seven business lines: Civil and transport engineering, Geotechnical Engineering, Building, Construction Material Quality Control, Health and Safety Coordination, Construction Product Certification and Research, Technological Development and Innovation. The Andalusian Company will be the coordinator of the proposal. The purpose of the project is to promote and encourage the construction of green roofs in others countries where its use is not common. Green roofs are widely developed in central and northern Europe countries, USA, Canada and Japan. They present a wide spectrum of environmental and economics benefits. Experience and studies have proved their advantages in these countries. Nevertheless, very scarce examples can be found in others countries. The project will show, with qualitative and quantitative performance indicators that green roofs can be easily introduced in others Europe countries markets if appropriate dissemination and training is carried out. The reason for the limited development of such roofs in Mediterranean Europe is a consequence of the lack of experience proving the economical and environmental benefits of them. Green roofs reduce the costs for heating/cooling, roof maintenance and noise insulation and decrease CO2 emissions. Therefore the promotion, encouragement and massively development of Green Roofs in others Europe countries will help the economy of the society in these difficult times and will collaborate with the EU goal of reducing CO2 emission in 2020 by 20%. They are looking for partners for collaborating in Research and Development activities related to the project proposal. Technical Specifications / Specific technical requirements: They are looking for SMEs, research centres, universities and/or industry with expertise in Green Roofs. This project is referred to the call and topic: - Call identifier: FP7-ENV-2011-ECO-INNOVATION

	- Topic: ENV.2011.3.1.9-1 - Funding programme: Collaborative Project Project proposal development stage: Proposal stage. They are looking for more partners for the consortium. Deadline: 16 November 2010 They are looking for SMEs and demonstrators with expertise in Green Roofs. ORGANISATION: Centro De Innovaci??n Y Transferencia De Tecnologia De Andaluc??a, S.A.U. COUNTRY: Spain DEADLINE: 09/09/2011 LIST OF KEYWORDS TECHNOLOGY Civil engineering, Sensory/Multisensory Technology, Instrumentation related to construction technology, Unconventional and Alternative Energies, Energy management, Environmental Engineering / Technology MARKET COLLABORATION Joint further development
Partner type:	Type of partner sought: Demonstrators, SMEs. Specific area of activity of the partner: green roofs. Task to be performed by the partner sought: To establish a cooperation agreement for research and development activities related to the project.
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Partner Search 10

Theme:	Industrial Technologies
Title:	Novel algae-based solution for CO2 capture and biomass production
Deadline:	31/10/2010
Organization type:	Research Center
Country:	Hungary
Abstract:	A Hungarian research centre invites SMEs and SME Associations to the FP7 Research for the Benefit of SME Associations program. The aim is to develop small size, automatic, biofilm reactor with low operation and installation cost, capturing considerable amount of CO2 emitted, and resulting in organic products with high yield. SME, experienced in maintenance and service provision for energy industry, algae-based biomass production, bioreactors or suppliers of parts and SME emitting CO2 is welcomed
Description:	The Hungarian research centre is inviting SMEs and SME Associations with experience in algae-based biomass production or maintenance and service provision for energy industry or manufacturers or suppliers of reactor parts or CO2 emitters to the FP7 Research for the Benefit of SME Associations (FP7-SME-2011-BSG) program. CO2 gas emission is a wide spread problem, since its greenhouse effect. Energy production is responsible for about 38 % of European CO2 gas emission. Decrease of CO2 emission became a very strong part of business, due to European Directives on emissions as well as on CO2 trading. Reduction of CO2 emission is one of the key points for sustainable energy production in long term, too. One of the most widely studied solutions for the reduction of CO2 emission is its capture by green algae and production of valuable compounds, such as biomass or biodiesel. Green algae are relatively simple organisms, and able to convert inorganic substances (e.g. CO2, water) into organic substances through photosynthesis using light energy relatively fast. This process considerably reduces environmental negative impact of energy production as well as results in valuable by-products. On the other hand, current realizations are very limited and could not lead to break-through in the field. Commercial alga technologies use plantonic algae in water solution in Vertical Bioreactors (VB) or algae farms with large ponds. There are several disadvantages of these processes: lots of water is needed for the production, CO2 is bubbling through the liquid phase (large pressure drop, low efficiency), preparation of algae is not solved, harvesting is difficult, time consuming and inefficient, difficult scale-up, large foot print. Opposed to the current methods, the proposed process is based on biofilm technology using Rotating Disk reactor system similar to the state of art rotating reactors used in biological industry elsewhere. In

	this system algae can be grown on indifferent biocompatible surface and thus CO2 would be captured either from the gas phase directly or from the liquid phase after bubbling. This method would dramatically increase the efficiency and decrease the amount of water necessary for the process. Automatic and continuous harvesting could be designed. Scale up is easy and the foot print would be much smaller than used currently. As a result of a successful project we aim developing small size (small plants, biogas plants, etc.), automatic, biofilm reactor, with low operation and installation cost, capturing considerable amount of CO2 emitted, and resulting in organic products with sufficiently high yield. The proposed solution would be beneficial for the following sectors: - CO2 emitting industry, benefit because of CO2 capture and decrease of emission, in the case of small scale bio source based plant (such as biogas plant), almost zero emission can be reached with the proposed system, where emitted CO2 would be transformed into valuable organic products using algae. - Energy sector service companies would benefit in distributing the system as well as its installation and maintenance. - Biomass producers would work up raw algae materials and transform it into valuable marketed alga based products, such as biodiesel, oil, cosmetics, etc. - Companies supplying reactor parts bio-textile, motors, sensors, controllers, automatic would benefit with improving their business. - Companies specialized in CO2 trading and environmental consulting. Technical Specifications / Specific technical requirements: Call type, programme: FP7 ???Research for the Benefit of SME Associations Call identifier: FP7-SME-2011-BSG Deadline: 08.12.2010 Proposal development stage: 50% is ready, 6 partners are missing Requested EU funding: ~3 million Percentage of EU funding: ~70% Main task: support the development, disseminate the technology, installation, maintenance
Partner type:	Algae SME Associations experienced in algal biomass or biomass. Technical SMEs: o Manufacturer or supplier of reactor parts such as bio-textile, motors, sensors, controllers. o Maintenance & service provider for energy industry in Eastern-Europe o Maintenance & service provider for energy industry in Western-Europe. End-user SMEs: o Innovative manufacturing company emitting CO2 o Algae raiser o Algae buyer or processor.
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Partner Search 11

Theme:	NMP
Title:	Development of a new shotcrete/concrete with high strength and high deformability
Deadline:	30/9/2010
Organization type:	Non-profit organisation
Country:	Spain
Abstract:	A Spanish Non-profit organisation is working in the development of a new shotcrete/concrete with high strength and high deformability to be used in the reparation and maintenance of underground infrastructures. The potential partner must work in the field of materials for underground works to do numeric models, validation of the materials and the procedures or engineering consulting.
Description:	Tunnels constitute an essential link in modern communication networks; but the construction of increasingly long and deeply located tunnels requires overcoming the problems resulting from low-quality sections of ground. It is in such sections that support elements have to face very large strains that may lie somewhere between 5% and 10%. Shotcrete, the most commonly used support element in conventional tunnel construction methods, is noted for its unconfined compressive strength of 35 MPa and for a failure strain of 1%. Since the maximum strain that shotcrete can tolerate is much below that of low-quality grounds, its use in sections with major strains raises serious problems, essentially bearing on delays in the construction and the corresponding extra costs. In accordance with the above, the concept being raised in this research is that of finding a shotcrete/concrete with greater strength and larger

	strain ability than those currently available. The following objectives should to be met in the project: - Formulation of new shotcrete in order to reach a uniaxial compressive strength of at least 60 MPa and a failure strain of 10%. - Establishment of a new industrial process that, in addition to the usual shotcrete dosage, will permit the industrial development of a high-strength and large-strain (i.e. more ductile) ability shotcrete. - Establishment of novel experimental techniques and portable-wireless tools namely micro-drilling and indentation tool for the reliable, quick, in situ and non-destructive quality assessment of the new shotcrete strength and elasticity properties. - Formulation and implementation of a constitutive model that may adequately predict the mechanical performance of the new concrete in order to perform the dimensioning calculations with the right precision. - Validation of the new shotcrete/concrete process. Technical Specifications / Specific technical requirements: Call Title: Cooperation Theme 4 ??? NMP - Nanosciences, Nanotechnologies, Materials and new Production Technologies ??? LARGE 2011 Activity/ Area: Integration of Technologies for industrial applications Topic: NMP.2011.4.0-2 Advanced underground technologies for intelligent mining and for inspection, maintenance and excavation Deadline: 4 November. Proposal development stage: 1st stage The requested EU funding will be defined according to the final members of the consortium.
Partner type:	Type of partner sought 1: SME from Eastern Europe /Scandinavia. Specific area of activity of the partner 1: materials in underground works. Task to be performed by the partner sought 1: consulting and validation of the system developed. > 5 years of EU/international project experience. Type of partner sought 2: Academy from Eastern Europe. Specific area of activity of the partner 2: Materials in underground works. Task to be performed by the partner sought 2: The task to be performed by this partner will be related to numerical models. > 5 years of EU/International project experience.
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Partner Search 12

Theme:	Health and Biomed
Title:	Pharmacokinetics of drugs for cancer treatment
Deadline:	8/10/2010
Organization type:	University
Country:	Austria
Abstract:	Development of exhaled breath diagnostics for effective stratification of responders from non-responders in personalised medicine. The aim of the project is to reduce adverse drug effects by combining exhaled breath tests with pharmacogenomic strategies.
Description:	The aim of the project is to reduce adverse drug effects by combiningexhaled breath tests with pharmacogenomic strategies. The project will focus on genetic deficiencies for drug metabolisation with the development of (exhaled) breath-based tests using isotopically-labelled precursor compounds. Only stable isotopes (such as 13C, 18O and 15N) will be considered. These breath-based tests will predict responses to drug treatment, avoid chronicity, prevent relapse and reduce adverse effects. The breath-based tests will allow determining the phenotype of persons to be determined and will complement genetic testing. For breath analysis the following analytical techniques will be used: PTR-TOF, GC-MS, IRMS and photo ionization mass spectrometry It is expected that new approaches, substances, compounds, and/or organisms will result from this medium-scale focused research collaborative project (project budget 6 M Euros). Scientific exchange and other valuable future co-operations may also be feasible. Development stage: Proposal Under Development European funding source(s): FP7 - Co-operation, Health Type of Project: FP7 Collaborative Research Keywords : Cytology, Cancerology, Oncology (006001004), Medical

	Research (006001013), Medical Technology/Biomedical Engineering (006001014), Pharmaceutical Products/Drugs (006001016) Organisation type: University Organisation size: 250-500 Other details: The department works on the development of exhaled breath diagnostics for effective stratification of responders from non-responders in personalised medicine.
Partner type:	SMEs with expertise in pharmacokinetics of drugs for cancer treatment (e.g. imatinib, dasatinib, nilotinib, gefitinib) with special consideration for cytochrome P450 enzymes
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Partner Search 13

Theme:	Industrial Technologies
Title:	Integrated Direct Part Marking (DPM) for Rapid Manufacturing
Deadline:	31/10/2010
Organization type:	University
Country:	Great Britain
Abstract:	Development of a technology that ensures biunique identification of Rapid Manufactured (RM) products, during generative fabrication

	without additional efforts on application. Marks based on optical and electromagnetical reading devices are in focus of the investigation.
Description:	Our aim is to develop a technology that ensures biunique identification of rapid manufactured products, during generative fabrication without additional efforts on application. The proposed solution fulfils the quality guidelines, such as Machinery Directive. Marks based on optical and electromagnetical reading devices are in focus of the investigation. Therefore we are seeking for partners in the fields of: - adaptation of rapid prototyping machines and its control systems; - adaptation of optical reading system such as multi code readers to special light conditions; - adaptation of RFID transponders to special heat and chemical resistance; - CAD-based programming solutions mainly handling of standard transfer formats of volume models. At the end of 2009 the new Machinery Directive 2006/42/EG came into operation. The guideline has to prevent harm to the human health, damages to the machines and the environment. The directive regulates necessary arrangements for manufacturers to document the security of the machines and produced parts before they are sold on market. Rapid Manufacturing becomes recently more convenient for fabrication. It implies the chance to produce personalized objects for individual needs. The lot size of one is not inefficient anymore. But an effective quality management is not yet established in order to fulfil the requirements of the Machinery Directive. The necessity of a biunique marking soon will be essential for manufacturers, who want to sell generative fabricated products. Our investigations have shown, that the generative process of Rapid Manufacturing is able to combine part fabrication with direct part marking (DPM) in one assembly. This process is defined as generative DPM. Until now printing of adhesive labels or common direct part marking methods required additional time and were cost consuming. The proposed work develops a technology to overcome this disadvantage by two approaches mainly. The RFID transponder technology and optical readable marks enable an innovative automatic identification. Considered methods also assure authenticity for lifetime of individualised products fabricated by digital manufacturing. Due to investigate possible applications to a challenging problem and bring pilot technology to market, we are seeking for industrial partners and research organisations. A successful realisation of this project brings a significant competitive advantage to our industrial collaborators. The list of specific partners we are looking for includes: - Suppliers for Rapid Prototyping machines and controller software, - Suppliers and developers of materials for rapid technologies(mainly plastic), - Suppliers for CAD-based software engineering (handling of standardised transfer formats), - Developers of optical reading devices (multi code readers), - Research organisation with expertises in rapid technologies with experimental equipment (non-German). Development stage: Proposal Under Development European funding source(s): Research for the benefit of SMEs, FP7 - Capacities Type of Project: FP7 Collaborative Research

	Keywords: Design and Modelling/Prototypes (002001), Machine Tools (002002009) Organisation type: University Organisation size : >500 Other details: University of Technology Department involved in aspects of automatic identification.
Partner type:	Business or research partners active in the field of Rapid Prototyping machines and controller software, in materials for rapid technologies(mainly plastic), in CAD-based software engineering or in the development of optical reading devices
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Partner Search 14

Theme:	Transport
Title:	Management of advanced Demand Responsive Transport systems
Deadline:	5/10/2010
Organization type:	SME
Country:	Italy
Abstract:	Development of a system for the management of an advanced DRT system where positioning is a key enabler. The field of application is urban/extra-urban passenger transport and envisages the integration

	with local public transport (multimodal).
Description:	The Door2DoorMose proposal aims at developing and demonstrating a system for the management of an advanced DRT system where positioning is a key enabler. The development and integration of new software, services, hardware and datasets is considered. The field of application is urban/extra-urban passenger transport and envisages the integration with local public transport (multimodal). Organization details Country: Italy Organization type: SME Organization description: An Italian Software House focused on the field of Passenger Transport. The company designs and realizes ITS Solutions with modular implementation, specific for transport companies operating with Urban, Suburban, National, International, Tourist services.
Partner type:	SMEs or universities/research centers dealing with localization with Galileo and EGNOS , transport operators for demos in flexible sector or HMI for mobile devices
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Partner Search 15

Theme:	Energy
Title:	Visualisation of Integrated Energy Data Workflows
Deadline:	30/9/2010

Organization type:	University
Country:	Germany
Abstract:	Providing an IT working environment for energy managers of buildings by using integrated ICT-based management and intelligent control systems to optimise operational performance, energy management and planning support
Description:	SOA based IT working environment for energy managers of buildings: Using integrated ICT-based management and intelligent control systems to optimise operational performance, energy management and planning support resulting in increased energy efficiency and user comfort. Data management shall be based on a common energy ontology, based on open standards, enabling fluent data exchange between the integrated tools, application views and levels of detail. Special focus is on optimised subsystem coordination and innovative 3D based information visualisation. ACTIVITIES: - Energy Ontology Specification - Data Modelling, Management - Development of optimized control strategies for building automation - Integrative Working environment platform - Innovative 3D based visualization (Front-End) - Validation in real-time under real-user conditions EXPECTED OUTCOMES: Energetic: Integrate facility management, energy management, monitoring and simulation data with building control systems to optimise operation of buildings with expected savings of 10%-30%. Economic: Significant reduction of time/financial costs for data management and software; thus adding value to the work of energy managers and improving communication of energy flows. Strategic: Provide better information to decision makers and test the economic value of advanced ICT based, energy focussed, facilities management. The project proposal will be sumitted in the PPP call: Energy-Efficient Buildings 2011, Objective EEB-ICT-2011.6.4 Development stage: Proposal Under Development European funding source(s) : FP7 - Co-operation, Information and Communication Technologies Type of Project: FP7 Collaborative Research Keywords : Advanced Systems Architecture (001002001), Data Processing/Data Interchange. Middleware (001002008), Building Automation Software (001002020), Information Filtering, Semantics, Statistics (001004005), Communications Protocols, Interoperability (001005013), Process optimisation, waste heat utilisation (004006003), Energy management (004006001), Sensor Technology related to measurements (009001009) Organisation type : University Organisation size : <50

Partner type:	Energy Management Specialist / Building Automation and Control Systems having interest and knowledge OPC UA, SOA, Standardization and interoperability or demonstration partner with willingness to optimize its energy management
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