

TECHNOLOGY TRANSFER E-BULLETIN

Date: 26.02.2018



SPAIN

TOES20171129002

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A Spanish university developed a bubble column-type bioreactor to carry out the culture of a cell suspension of any type of plant in aseptic conditions. The novel design of this low-cost bioreactor allows: to recover the culture medium, to replace it with another medium, to reuse the remaining biomass for a next culture operation, a homogenous and efficient aeration, and the correct agitation of the culture. Companies interested in licensing or technical cooperation agreements are sought.

SPAIN

TOES20171221001

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A Spanish university has developed a method for biometric authentication by recognizing the blinking of a subject. It consists of studying and characterizing the changes in the intensity of diffused light during the blinking process. This method allows the authentication of subjects by means of a contactless procedure, and even unconsciously. Companies interested in licensing or technical cooperation agreements are sought.

UNITED KINGDOM

TRUK20180124001

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A multinational shipping enterprise with a registered base in Scotland (UK) is seeking novel approaches to improve Port Operations safety, particularly in the on-loading and off-loading of unaccompanied freight for Ferry and Roll-Off/Roll-On vessels. The ideal solution would work with a broad range of freight types, haulage companies, and vessel types. The Scottish company is looking for partnerships via a joint venture or a technical cooperation agreement.

UNITED KINGDOM

TOUK20180124001

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A technology transfer organisation in the UK that specialises in the commercialisation of defence research has developed a lightweight steel ideally suited for appliqué (retrofitted) armour. This steel provides a low-cost and more easily machinable alternative to current armour plate while providing the same level of ballistics performance. The company is offering a license agreement to steel manufacturers and security/defence products manufacturers.

GERMANY

TODE20180124001

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A young German company offers an exceptionally lightweight motor that can be mounted on classical bikes. The bike remains lighter than regular e-bikes and can easily be carried. The motor is based on a new patented design. Maintenance requirement is low. Partners are sought for commercial agreements with technical assistance in Europe and for license agreements outside of Europe.

ITALY

TOIT20171107001

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An Italian start-up has developed a technology for the extraction of active principles from different vegetables and herbal matrices without chemical treatments. The extracted molecules are present for more than 98% in a combined form (glycosides) in the same way they are naturally present in plants and fruits. The start-up is willing to cooperate with international partner under technical and research cooperation agreements. A manufacturing agreement is also a viable kind of cooperation.

- BELGIUM** [TOBE20171222001](#) [Full text here](#) [Request the address](#)
 The biofiltration process developed by a Belgian research center (RC) removes hydrogen sulphide from gaseous streams by the selective oxidation of sulfide to elemental sulfur. This process has several advantages compared to existing methods: no need to replace the biocatalyst, low chemical consumption and sulphide removal efficiency > 95 %. The RC is looking for an industrial partner who wants to further develop (construction of a demonstration plant) and commercialize the technology (licensing).
- GERMANY** [TODE20180112001](#) [Full text here](#) [Request the address](#)
 A non-university research organisation from Germany is seeking for a coordinator for a project in H2020 ICT-29-2018: "A multilingual Next Generation Internet" (RIA). They are in the process of setting up a consortium on the development of multi-lingual semantic applications, for example for a multi-lingual indexation of patents in order to make them accessible to a wider, general public. They offer a comprehensive bilingual (English-German) thesaurus for technical and management topics.
- LATVIA** [TOLV20171220001](#) [Full text here](#) [Request the address](#)
 A company from Latvia offers a technology for production of ferments for dairy industry using microorganisms. Using these ferments a variety of popular milk products can be produced, e.g. yoghurt, kefir, cultured buttermilk or cultured cream. Main advantage of the technology is using biological and ecological solutions with the same effect on the final product. The company offers commercial agreement with technical assistance.
- SOUTH KOREA** [TRKR20180112001](#) [Full text here](#) [Request the address](#)
 A Korean company in the field of security access gate would like to find a supplier that could provide a brake or decelerator with better specifications. The brake should generate less noise when a door linked to the shaft moves, and the decelerator installed in the shaft should hold the shaft firmly and create less clearance (space). As both components have to be adjusted for the module, a commercial agreement with technical assistance is preferable.
- BELGIUM** [TOBE20171026001](#) [Full text here](#) [Request the address](#)
 A Brussels-based company with an already established branch in Senegal specialized in energy audit and management of photovoltaic projects and rural electrification is looking for a financial agreement on new small photovoltaic technology projects and isolated systems for professional clients who already expressed their interest & signed purchase orders. The global power of the projects is of 9.010 Wc. Duration of the agreement: 3 to 5 y.
- CHINA** [TRCN20170803001](#) [Full text here](#) [Request the address](#)
 This is a Chinese pharmaceutical company specialized in R&D and manufacturing of non-PVC (polyvinyl chloride) soft bag infusion. According to their company development demand, currently, they are looking for advanced new products and technology in the domain of nephrology, nutrition and infusion from Europe market. Potential cooperation could be worked out under technical cooperation agreement.
- AUSTRIA** [TOAT20180206001](#) [Full text here](#) [Request the address](#)
 A revolutionary 3D-modelling and tooling technology has been developed by an Austrian SME. This technology is used to produce models from polyurethanes in a close contour casting process. By providing close contour casts, this company's customers save up to 30% in labor costs and up to 40% in material costs. Partners active in the area of polyurethanes are sought for commercial agreement with technical assistance.
- GERMANY** [TODE20180202001](#) [Full text here](#) [Request the address](#)
 A German research team developed a general purpose software package for realistic simulations. This Uncertainty Quantification is taking unavoidable uncertainties associated with models, e.g. in geometry, material properties, loads, etc. into account and therefore increases the quality of the results of the analysis and design of structures and systems. The team is looking for industrial partners which are interested in a licence agreement.

- ITALY** [TRIT20180201001](#) [Full text here](#) [Request the address](#)
An Italian software house, providing integrated solutions for industrial plants, intends to improve its service offer by integrating a sophisticated assessment of metallurgical conditions to the common asset integrity practices to optimize procedures and keep a high safety level. To this end, it is looking for a partner for a technical cooperation agreement, to develop suitable algorithms in order to verify the proper integrity status of equipment according to a Fitness For Service approach.
- UNITED KINGDOM** [TRUK20180201001](#) [Full text here](#) [Request the address](#)
UK company specialising in products for babies is looking to partner with a company manufacturing a baby video monitor working via wi-fi that will work with a range of mobile devices providing parents with instant video and audio of their baby enabling them to check on well being at all times. The company has a successful range of products for parents of very young children and is seeking to add to it innovative range. The manufacturer to supply under white label for partner branding.
- UNITED KINGDOM** [TOUK20180201001](#) [Full text here](#) [Request the address](#)
A UK company has developed a portable pocket microscope that delivers laboratory grade images. The microscope displays and stores 1 micron resolution images and HD videos on a smartphone or tablet. The product allows scientists, engineers, health professionals and educators to use a microscope in remote locations for the first time. The company is seeking partners with a global presence in science and technology vertical markets to license this unique product as part of their global offering.
- FRANCE** [TRFR20171214001](#) [Full text here](#) [Request the address](#)
A French SME working in aircraft domain is looking for development of assembly techniques and technologies for wood materials for an innovative type of aircraft that will be environmentally friendly. Technical cooperation is sought with industry, technical institute or research laboratory to build the prototype.
- SPAIN** [TOES20180131002](#) [Full text here](#) [Request the address](#)
A Spanish biotechnological research organization offers its innovative biotechnological fungal platforms for the production of terpenoid-or peptidic-nature compounds. The advantage of the platforms, versus prokaryotic ones or chemical synthesis, is the production of certain metabolites mainly those naturally occurring in plants. Partners sought are SME,R&D institutions or universities, in order to achieve service agreements or research cooperation agreements to submit to European programmes.
- GERMANY** [TODE20180125001](#) [Full text here](#) [Request the address](#)
A research institute at a German university has adapted conventional mass printing processes to printed electronics. The expertise ranges from mass printed single electronic components to fully integrated circuits on flexible substrates and the development of functional inks/surfaces. Inexpensive production of a variety of electronic and sensor devices is offered. The partnerships considered are based on research cooperation agreement and/or technical cooperation agreement.
- SPAIN** [TOES20180126001](#) [Full text here](#) [Request the address](#)
Spanish contract research and technical organization specialized in food industry engineering offers its expertise, technology, and research capacity to limit the generation of carcinogen acrylamide in food industry processes, such as frying, roasting or baking. They offer customised and feasible reduction solutions depending on the type of food and the manufacturing process, in the form of technical, research or high added value services agreements.
- POLAND** [TOPL20180126001](#) [Full text here](#) [Request the address](#)
A Polish research institute working on wood technologies has developed an innovative technology that helps to protect wood against light thanks to transparent lacquer with an addition of metal oxides. The technology is developed as a laboratory tested method of wood protection. The institute is currently looking for foreign technology or business partners to further develop the technology and implement it in their local markets. The desired type of agreement is license agreement.

- SPAIN** [TOES20180126002](#) [Full text here](#) [Request the address](#)
 A Spanish SME offers advanced lighting systems based in base of plasma (BOP) technology. The main advantages of these lighting systems compared to existing products are the energy savings and light efficiency reducing the environmental impact and light pollution. They are interested in a manufacturing agreement, technical cooperation agreement or a commercial agreement with technical assistance.
- SOUTH KOREA** [TRKR20171204001](#) [Full text here](#) [Request the address](#)
 A Korean company is looking to develop a display-mounted, wireless-communication enabled, safe-to-use 3D digital x-ray machine. It is intended to be used in a first-aid scene. The company owns know-how for the device facility but is in search of the process technology for the machine. They are looking for a partner available for technical cooperation who can supply the company the needed technology. Joint venture between the two companies is also a considered option.
- POLAND** [TOPL20180119001](#) [Full text here](#) [Request the address](#)
 A Polish research institute working on wood technologies has developed an innovative technology that helps to protect plywood against fungi and by extension against moisture and mould. The technology is based on ionic liquids and was developed as a laboratory tested method of plywood protection. The institute is looking for foreign technology or business partners to further develop the technology and implement it on the European market. The desired type of agreement is licence.
- UKRAINE** [TOUA20180118001](#) [Full text here](#) [Request the address](#)
 The SME from Kyiv (Ukraine) offers an air-heater for reducing the energy consumption in ventilation systems and increasing the coefficient of transformation heat pump (HP) of air-air or air-water type at temperatures below minus 5 °C using the heat of crystallization of water. Installed power of HP is reduced. The organization is looking for partners to implement this offer in the form of a commercial agreement with technical assistance or technical cooperation agreement.
- UKRAINE** [TOUA20171215001](#) [Full text here](#) [Request the address](#)
 Ukrainian research laboratory for special instrument engineering offers a technology (an installation) for production of ultrapure hydrogen and oxygen from water steam by electrochemical electrolysis with solid electrolytes. The advantages of this offer are technological (the ultrapure products, compact size of installation, ability to work from a standalone power source) and competitive (quality of the products, price). Cooperation type is likely to be licensing or technical cooperation.
- SOUTH KOREA** [TOKR20171102007](#) [Full text here](#) [Request the address](#)
 A Korean SME has focused on the field of medical instrument since founded in 1973. The device utilized for surgical anesthesia is developed by them with its own source technology. Since technological applications are proved in the matter of safety and economy, the company decides to use technologies on the applicable field, but not attempted yet, such as sleep endoscope. The company seeks for partners of license, research cooperation, and commercial agreement with technical assistance.
- SERBIA** [TORS20170831002](#) [Full text here](#) [Request the address](#)
 Railway switches are being damaged due to the loads to which they are subjected to. A highly efficient technology for three-layer surface welding for railway switches reparation, has been developed. The Serbian company is seeking joint venture for production and bringing the technology to the railway infrastructure market.
- GERMANY** [TODE20180213003](#) [Full text here](#) [Request the address](#)
 A German university offers an anti-lock braking system for bicycles with a suspension fork. It increases safety significantly as it lowers the risk of the cyclist to fall. The system has a simple and robust set-up and can be retrofitted to existing bicycles. The system is at the development stage. An industrial licensee with an interest in further development is sought.

- SPAIN** [TOES20180209001](#) [Full text here](#) [Request the address](#)
 A Spanish start-up has developed a solution that accelerates the inspection process of big infrastructures such as photovoltaic plants. It uses AI(Artificial Intelligence) to analyse the thermal images taken by drones to automate the detection of hotspots and improves the management and visualization of key information regarding the O&M(Operations and Maintenance) process. The company is looking for partners in order to perform tests in real environment under a technical cooperation agreement.
- SPAIN** [TRES20180131001](#) [Full text here](#) [Request the address](#)
 A Spanish (Catalan) company comercializing an innovative solution for running races management seeks a solution to decrease its GSM costs and make their product more competitive. Their timing technology currently relies on GSM and they are looking for decreasing the costs using a reliable technology to provide their customers a more competitive tool. They are looking for a commercial agreement with technical assistance or a technical agreement with a company able to provide a more accurate tool.
- POLAND** [TOPL20180201001](#) [Full text here](#) [Request the address](#)
 The Polish research institute working on wood technologies has developed an innovative method of particleboard protection against fungi. This technology could be easily implemented in the traditional production process of particleboard. The technology was developed as a laboratory tested method of particleboard protection. The Institute is currently looking for partners to develop technology and implement it on the market. The desired type of cooperation is a license agreement.
- UNITED KINGDOM** [TOUK20170106002](#) [Full text here](#) [Request the address](#)
 Researchers from a UK university school of computer science department have applied a methodology used in big data implementations to produce a new solution to the long standing problem of creating an accurate bill of materials that can be used in materials resource planning (MRP) and enterprise resource planning (ERP) systems. The university seeks partners for licensing or technical cooperation agreements.
- SLOVENIA** [TOSI20180119001](#) [Full text here](#) [Request the address](#)
 Slovenian SME specialized in ICT has developed an innovative gamma-ray source locator. Its main advantage is significantly shortened time one needs to find the radioactive source. The company is looking for governmental and other entities on EU and national level that are working to increase preparedness of agencies and authorities to CBRN incidents via trainings, exercises and offers commecial agreement with technical assistance or research cooperation agreement.
- GERMANY** [TODE20180131002](#) [Full text here](#) [Request the address](#)
 A German SME has developed a unique luminescent polymer concrete technology for indoor and outdoor building elements. Available in many different shapes/colours/designs and optical effects they fulfill functional as well as decorative purposes. Special photo luminescent particles are integrated into the material surface releasing the UV light which they have absorbed during the day. Company seeks license or commercial agreements with technical assistance.
- SOUTH KOREA** [TOKR20171102006](#) [Full text here](#) [Request the address](#)
 A Korean SME specialized in technology related to the eyes and the lens, has developed an innovative and cost-effective iris recognition device which is defined as biometric authentication. Robust biometric solutions are suitable for the widest range of applications, from personal identification at Automatic Teller's Machine (ATM) machines to access control for businesses. The company is looking for license agreements or commercial agreements with technical assistance.
- GERMANY** [TODE20180108002](#) [Full text here](#) [Request the address](#)
 German SME has developed a sustainable building technology for fast construction of simple buildings/shelters (permanent or dismantable). The innovative system includes the production process of LEGO-style polymer concrete blocks using mainly locally available materials e.g. desert sand or mining/excavation materials as well as their simple modular assembly to buildings/shelters as refugee camps, after natural disasters or permanent housing after slum clearance. SME seeks commercial agreements.

NETHERLANDS [TRNL20180219001](#) [Full text here](#) [Request the address](#)

A Dutch start-up developed a state of the art technology to remove the plastic waste from the high seas. This year the company will launch a system to collect floating plastic debris from the Pacific Garbage Patch. The material that will be collected will be 50 % of High Density Polyethylene fish nets and 50 % of rigid plastics. The SME is looking for a partner to work in the frame of manufacturing agreement to process the fish nets to granulates that can be used for making new products.

AUSTRIA [TOAT20180219001](#) [Full text here](#) [Request the address](#)

The Austrian ICT company has launched a cloud based solution for construction documentation, task and defect management. It consists of a web app and native apps for all kind of smartphones and tablets to record tasks and defects on and off site in a cost- and time-saving way. The system is easy-to-use, available for all mobile platforms and browsers and has a ROI of more than 900%. They are looking for a commercial agreement with technical assistance.

POLAND [TOPL20180219001](#) [Full text here](#) [Request the address](#)

A team of Polish scientists active in the field of packaging materials and systems has developed fully biodegradable packagings for the food industry. They are made from paper-based materials, starch or a polymer derived from renewable resources. Besides being environment-friendly, the packagings are also thicker than the products available on the market, have high water-resistance and antibacterial properties. The scientists are looking for business partners interested in the license agreement.

FRANCE [TOFR20171117002](#) [Full text here](#) [Request the address](#)

The French TTO (Technology Transfer Office) is acting on behalf of a research lab of a design school in the Paris region. This lab has designed a new shock-protection device to be used as a compact and modular backpack for extreme outdoor conditions. It is dedicated to professionals and non-professionals traveling, practicing outdoor activities, facing extreme climate and shock conditions. The French TTO is looking for partners interested by a license agreement or a technical cooperation.

GERMANY [TODE20180213004](#) [Full text here](#) [Request the address](#)

This Electronic Stability Control (ESC) system developed by a Technical University from Northern Germany prevents construction vehicles with high center of gravity from tip over in cases of sudden sagging of unfortified grounds. Transfer of rights, license agreements or R&D cooperation are offered to industrial partners with an interest to commercialize the technology, e.g. producers of chain-driven big machinery like excavators, drilling vehicles, crawler cranes, diaphragm wall cutters etc.

UNITED KINGDOM [TRUK20180215002](#) [Full text here](#) [Request the address](#)

A global technology development company with its commercial office in the UK is actively looking for innovative products and/or technologies in the pathology consumables and microsampling space to add to their portfolio. The company intends to bring these products and technologies in-house for further development and/or commercialisation. Partnerships are envisaged to take form of commercial agreements with technical assistance, technical cooperations or licensing agreements.

UNITED KINGDOM [TOUK20180214001](#) [Full text here](#) [Request the address](#)

A technology transfer organisation in the UK that specialises in the commercialisation of defence research is licensing a high-performance, low size, weight and power scanning beam collimator. Its novel design generates uniform beam path lengths and spot shape, and it is also mechanically much simpler. The company is offering a license agreement to manufacturers of portable backscatter x-ray devices as typically used for security and screening applications.

- GERMANY** [TODE20180213002](#) [Full text here](#) [Request the address](#)
A German research institute has many years of experience in traffic management and data collection. They have realised several projects in the field of logistics and are now interested in further logistic projects to offer its competencies under research cooperation agreement. The institute want to enlarge its network of partnerships abroad by means of scientific collaborations or also research projects funded by EU.
- GERMANY** [TODE20180208001](#) [Full text here](#) [Request the address](#)
A medium-sized German company is specialised in developing and constructing medical bed systems. The application range of these medical bed systems covers medical practices, therapists and hospitals as well as applications in geriatric care. For its finished products the company is searching for established partners in the medical field for licence agreements or through the acquisition of property rights for manufacturing in order to capitalise on these unique selling propositions.
- ROMANIA** [TRRO20180129001](#) [Full text here](#) [Request the address](#)
Romanian association of administrative-territorial units, very active and experienced in supporting the development of rural communities, is looking for partners which can provide the latest technology line for potato starch production to be included within a local factory, based on a commercial agreement with technical assistance.
- ITALY** [TOIT20180206001](#) [Full text here](#) [Request the address](#)
An Italian researcher, experienced in industrial automation, has developed, patented but not yet granted, a gear motor with no or controlled backlash able to manage the clearance between the input motor shaft and the output shaft. This technology allows to operate with minimum play during the movement-transfer phases and then to stop in working positions with no play. Technical cooperation or Commercial agreements with technical assistance are sought in all Europe, USA and Canada.
- GREECE** [TOGR20180202001](#) [Full text here](#) [Request the address](#)
A Greek ICT SME has developed an integrated location-based mobile application (compatible with most popular mobile operational systems) that delivers targeted and interactive multimedia content, both indoors and outdoors, and enhances tourism and/or shopping experience. The company is interested in a joint venture or research cooperation agreement with tourism related SMEs.
- AUSTRIA** [TOAT20180130001](#) [Full text here](#) [Request the address](#)
An Austrian SME has developed a prototype of a kitchenware to grow all desired vegetables, herbs and microgreens in domestic kitchens. Within this box all environmental parameters relevant for optimal, fast and reliable plant growth are controlled automatically without any need of maintenance. For installation of the patented system solely one power plug is necessary. Partners are sought for commercial agreements with technical assistance, license agreements and technical cooperation agreements.
- SOUTH KOREA** [TOKR20180129002](#) [Full text here](#) [Request the address](#)
A Korean institute has developed a scattered radiation shielding device. They come up with the technology because they realize that both doctors and patients are easily exposed to radiation while c-arm fluoroscopy is operating. The device encloses where x-rays are radiated and decrease the amount of radiation spreading to a person's eyes, head, and hands about 60% without lowering the quality of the fluoroscopic images. The institute is looking for commercial agreement with technical assistance.
- SLOVAKIA** [TOSK20180126001](#) [Full text here](#) [Request the address](#)
Innovative Slovak company is offering their expertises in corrosion and surface treatment. The newest technology offered is the nanosafety sensor - by the sensor the Slovak company has developed the life-time of any metallic nanobjects in environment of interest could be predicted. Slovak company would prefer the cooperation via research cooperation agreement or via financial agreement.

SLOVAKIA[TOSK20180122001](#)[Full text here](#)[Request the address](#)

A Slovak company has over 65 years activity in the research of polypropylene (PP), polyester (PES), polyactic acid (PLA) and other chemical fibres, their applications, production of colour and additive masterbatches for mass-dyeing of fibres, films and plastics, development and engineering of equipment and machinery for chemical and related industries. They are looking for partners to cooperate via manufacturing agreement, research cooperation agreement or technical cooperation agreement.

FRANCE[TOFR20180124001](#)[Full text here](#)[Request the address](#)

The French TTO (Technology Transfer Office) is acting on behalf of an established public laboratory of the Paris region that has developed a novel process to emit a single photon. This kind of method is used for cryptography in telecommunications and is used for technical instruments in microscopy or spectroscopy. The efficiency of the process has been demonstrated. The French public research centre is looking for partners for a technical cooperation, license or a research cooperation agreement.

ITALY[TOIT20180116001](#)[Full text here](#)[Request the address](#)

An Italian SME is engaged in the development of monitoring services based on advanced geomatics technologies. Innovative systems integrating satellite and ground-based data are designed for controlling rural and built-up environment. A specific focus of the company on the mitigation of the effect of natural hazards on land and infrastructural networks. The SME is looking for research projects collaboration, private initiatives and commercial agreement, mainly in Europe and extra-UE

SPAIN[TOES20171213003](#)[Full text here](#)[Request the address](#)

Information and communication technology and robotics area of Spanish technology centre is offering its robotics technology knowledge and equipment to companies interested in using this robot to increase their visibility, especially on events. Partnerships sought are service agreement with companies of any sector and research cooperation agreement with any type of entity in the field of robotics.

ISRAEL[TOIL20171107001](#)[Full text here](#)[Request the address](#)

Israeli start-up offers a new technology of wind turbine system to maximize wind energy utilization. Renewable energy sources such as wind and solar energy are clean and available as long as the wind is blowing or the sun is shining. The technology offered is designed to extract maximum energy when wind prevails and use it when demand is high in day-night cycle. The company is looking for partners involved in green energy, for financial, joint venture, and technical cooperation agreements.