

## TECHNOLOGY TRANSFER E-BULLETIN

Date: 03.07.2019



### AUSTRIA

TOAT20190605001

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An Austrian SME develops sensor solutions consisting of multiple autonomous, thin and flexible sensors for precise ice detection and temperature measurement on rotor blades. This innovative, retrofittable product increases the energy yield of wind turbines and ensures their safe and optimal operation. Cost savings arise due to increased efficiency and a reduction in on-site inspections. The company is looking for partnerships for licence, commercial and technical agreements.

### SOUTH KOREA

TOKR20190619001

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A Korean company developing energy storage system (ESS) and battery packaging solution based on a cylindrical lithium-ion battery are looking for a European partner who wish to receive technology know-how through a license agreement. The battery produced is applicable to any field in need of battery such as ESS, communication, electric boat, and electric power vehicle. It's well-known for their lightweight, high-efficiency, long-lasting battery life, as well as for low maintenance costs etc

### UKRAINE

TOUA20190506001

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A Ukrainian Institute actively conducts scientific and technical research and development into seismic acoustic-electronic sensors. The Institute has a good scientific-technical-material base for research and many years of experience. The Institute is looking for long-term partners interested in joint research and market promotion of seismic systems for technical means under commercial, technical or research agreement.

### UKRAINE

TOUA20190619001

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A Ukrainian scientific institute offers probiotic, also effective as a feed additive. The basis of the preparation - two spore strains of bacteria of the genus Bacillus. The biopreparation exhibits antibacterial, antifungal, antioxidant and immunomodulatory activity, improves the digestibility of feed. The institute is interested in cooperation with enterprises that specialize in the production of microbial biopreparations. The partnership is possible on the basis of license agreement.

### GREECE

TOGR20190517001

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A Greek SME has developed a platform enabling precision medicine, nutrition and cosmetics through the discovery of biomarkers, which focuses on analysis of complex life-science and biological data. This solution expedites prognosis and diagnosis process for certain diseases through the isolation of biomarkers, which are confidently related to the cause of the disease. The Greek SME is looking for partners to cooperate with under commercial, financial or research cooperation agreement.

### SWITZERLAND

TOCH20190625001

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A Swiss biotech SME develops drugs that increase local microcirculation resulting in an unprecedented potency to stimulate nutritive blood flow, enable tissue regeneration and avoid hypoxia. Several indications are treatment of chronic wounds, ocular diseases and conditions associated with aging. Pharmaceutical corporations for a licensing or financial agreement and universities for a research cooperation agreement to bring additional proof of concept and validation in animal studies are sought.

**AUSTRIA** [TOAT20190613001](#) [Full text here](#) [Request the address](#)

An Austrian company developed a software for optimization of existing concrete mixtures and the design of new ones, with new materials, tailored for specific applications. Concrete mixtures can be achieved 10x faster and resulting mixtures are 6x stronger. Reduction of cement content in mixtures and usage of alternative constituents reduces costs and CO2 emissions of new mixtures. The Austrian company is interested in license, joint venture, technical and research and financial agreements.

**CROATIA** [TOHR20190301001](#) [Full text here](#) [Request the address](#)

A Croatian company has developed an innovative method of tracking objects in 3D multi-camera environment. The method includes a panoramic camera, PTZ (Pan Tilt Zoom) full body camera, auto zoom and auto-tracking of people over a wide area. They also feature high-resolution 3D stereo images. The 3D position is marked for each pixel in the stereo image for easy, automated and fast 3D mapping. Looking to sign a joint venture, technical cooperation or commercial agreement with technical assistance.

**SLOVENIA** [TOSI20190619001](#) [Full text here](#) [Request the address](#)

A Slovenian company dealing with swimming pool filtration technology is offering their patented two-way sand filter and a method for swimming pool water filtration with high efficiency, to partners from EU and beyond. License agreement will be signed.

**AUSTRIA** [TOAT20190523001](#) [Full text here](#) [Request the address](#)

An Austrian company has developed a platform for virtual exploration, simulation, and verification of microprocessor architectures. Via a generator tool, a microprocessor architecture description can be automatically transformed into a simulator software tool for the respective microprocessor architecture within minutes with outstanding performance. So the duration and costs of the whole simulation process can be extremely reduced. The company is looking for technical cooperation agreements.

**GERMANY** [TODE20190513001](#) [Full text here](#) [Request the address](#)

A German SME active in the field of biogas plants offers its engineering knowhow for sustainable production of electricity and its access to process technology and equipment. Core competences among others are the processing and treatment of industrial and municipal sludge, organic waste, and agricultural residues. A new focus is given to chicken dung handling. The company offers licence agreements and is looking for partners that are interested in a commercial agreement with technical assistance.

**ITALY** [TOIT20190531001](#) [Full text here](#) [Request the address](#)

An Italian start-up company in the agricultural sector has patented a new soil-mulching system, without the disadvantages of traditional system in terms of disposal and environmental impact. Company is looking for partners to sign a license agreement or a commercial agreement with technical assistance.

**GERMANY** [TODE20190617001](#) [Full text here](#) [Request the address](#)

Continuous measurement of lactate during emergency or intensive care is very important as it is a critical parameter to lactate acidosis and the mortality rate. A group within a German research institute, specialised in bio-electro-mechanical systems and sensors therefore seeks partners to develop a new lactate potentiometry based sensing approach that would eliminate the problems from currently used enzymes. Envisaged partnerships are a research or technical co-operation or a license agreement.

**SWITZERLAND** [TOCH20190605001](#) [Full text here](#) [Request the address](#)

A Swiss research institute has invented and tested a new topology for switched mode power converters. Combined with the right method of control, this nearly eliminates switching losses and allows designs with >99% of efficiency (high energy savings). Also, electromagnetic interferences (EMI) are considerably reduced. On top of all its advantages, this new topology is simple and easy to drive. The institute is now looking for cooperation in form of licensing and further development.

**ITALY** [TOIT20190513001](#) [Full text here](#) [Request the address](#)

Italian bio-informatics SME offers a system for RiboNucleicAcid RNA-seq analysis of different grapevine genome cultivars. It's a knowledge base implementing a set of bioinformatics tools for the analysis of grapevine genomes, focused to improve knowledge of its varieties on adaptability to different climatic conditions, phenological phases, diseases, geographic locations. Wine producers, agriculture farm, agro-industry firm partners are sought for technical cooperation and/or license agreement.

**ITALY** [TOIT20190513002](#) [Full text here](#) [Request the address](#)

Italian biotech SME, focused on translational oncology, discovered an innovative technology for re-engineering natural products and created a novel, organic new small molecule to be exploited for melanoma treatment. The new drug is of natural origin and comprises characterized scaffolds and pharmacophores with anti-proliferative, tumor-selective actions. Biotechnology and pharmaceutical industry are sought for license or financial agreements.

**ITALY** [TOIT20190524001](#) [Full text here](#) [Request the address](#)

Italian biotech spin-off company working in the oncology field, integrated with clinical activities of a research institute, offers a broad range of diagnostic tool, from molecular diagnostic to pathology and cytofluorimetry. The methodology is aimed to the diagnostic needs of clinicians and laboratories. Biotech, pharmaceutical and research companies are sought for joint venture and/or research cooperation agreements.

**SPAIN** [TOES20190513002](#) [Full text here](#) [Request the address](#)

A Spanish biomedical research and networking center has developed a new family of innovative amphiphilic copolymers and terpolymers. These new compounds form bioactive polymeric nanoparticles, which can be used for the treatment of skin and bone diseases. The research center is looking to establish license, research or technical cooperation agreements with industrial partners either from Biotech or Pharma sector to enter pre-clinical collaboration or developing proof of concepts.

**BELGIUM** [TOBE20190606001](#) [Full text here](#) [Request the address](#)

A Brussels-based international NGO established in 1947 at the UNESCO in Paris is willing to join a H2020 consortium for SU-DRS01-2018-2019-2020 (deadline: 22 August 2019). They have proven expertise in the role of women in post-conflict areas and how to involve women more in the peace negotiations and in the discussions for the reconstruction of a zone or a country. They have a track record of success in H2020 projects, having been part of Family platform, Dorian (health) and Circ4Life.

**SPAIN** [TOES20190529001](#) [Full text here](#) [Request the address](#)

A Spanish Research Institution has developed an Electrolyte-Gated Field-Effect Transistor (EGFET) with enhanced electrical stability. These new EGFETs operate in aqueous environment, and are stable for more than 12 hours under uninterrupted operation, greatly surpassing current state-of-the-art EGFETs. The increased stability makes them suitable for real life applications. Industrial partners are sought to collaborate through patent licence and research cooperation agreements.

**FRANCE** [TOFR20190606001](#) [Full text here](#) [Request the address](#)

The French company has developed a handy manual shovel to clean narrow places like sewers, wells, septic tanks... as well as foundations of pylons that can be used by a single operator. The shovel is powerful, compact and easy to use everywhere. The company is looking for manufacturers of tools for civil work. Cooperation would be based on a licence agreement or patent assignment.

**ITALY** [TOIT20190621002](#) [Full text here](#) [Request the address](#)

An Italian company patented a technology for multiparametric characterization of micro and nanoparticles for a cheaper, faster and efficacious characterization in biological, industrial and environmental complex fluids and effective quality control processes during lab scale or industrial production. Continuous Flow Analysis of particles in fluids coupled with Flow Field Fractionary devices is possible. Technical partnerships and/or commercial agreement with technical assistance are sought.

**GERMANY** [TODE20190618001](#) [Full text here](#) [Request the address](#)

A German company has developed an innovative process to degrease industrial surfaces. They hold patents for Europe, USA, Japan and China. The technology has already accessed markets and proved fully functional. Current technologies are quite complex, expensive and solvent based. The offered solution has almost no environmental impact due to: - liquid-free cleaning - no chemical additives - lower operation costs Partners are sought for license agreement.

**SPAIN** [TOES20190516001](#) [Full text here](#) [Request the address](#)

A Spanish company offers a complete set of services for IoT implementation in companies and entities. The IoT solutions, fully integrated, collect and analyse data, finding tendencies and providing valuable information for decision making. Its experts (specialised on big data and software development) will develop the MVP (Minimum Viable Product) test it and bring it to the market. Partnership sought is a service, technical, research or commercial agreement with technical assistance.

**HUNGARY** [TOHU20190613001](#) [Full text here](#) [Request the address](#)

A small Hungarian family-owned SME specialized in garment production and IT solution development is offering a new construction method that is entirely different from the empiric methods used for garment pattern construction. It shortens the pattern design time by around two order of magnitude. The technology can be used for garment production and small scale customized or made-to-measure garment production. The company is looking for a joint venture partner to set up a new legal entity.

**CYPRUS** [TOCY20190415001](#) [Full text here](#) [Request the address](#)

A Cypriot engineering SME, specialized in waste management offers an innovative, tested and confirmed solution for the WtE industry, based on the molten slag principle adopted from metallurgy industry, with both environmental and economic advantages. The solution can be customized according to client needs. Waste management industries, engineering companies, municipalities and city councils are sought for joint venture agreement or commercial agreement with technical assistance.

**UNITED KINGDOM** [TOUK20190701001](#) [Full text here](#) [Request the address](#)

A young UK company holds a global exclusive license to make silica particles in a more controlled way and also a more economical way. The particles react with ligands to give a very controlled way to tune surface properties of coatings for hydrophobicity, anti-icing, scratch-proofing etc. The particles and know-how for further modifications are available to formulators of resins, paints and coatings under commercial agreements with technical assistance.

**SPAIN** [TOES20190530001](#) [Full text here](#) [Request the address](#)

A non-profit Spanish research institute from Madrid has developed a laminar composite material simultaneously having excellent structural properties and high energy storage efficiency. The cooperation types are license and research cooperation agreements, preferably with companies in the automotive and aviation fields.

**SPAIN** [TOES20190624002](#) [Full text here](#) [Request the address](#)

A non-profit Spanish research institute from Madrid has developed a novel inexpensive and scalable molecular reactor method for the synthesis of 2D metal oxides (Co<sub>3</sub>O<sub>4</sub>, Fe<sub>2</sub>O<sub>3</sub>, MnO<sub>2</sub>, NiO etc). These nanosheets demonstrated excellent Li-ion storage performance when tested as anode material in Rechargeable Li-ion batteries. The cooperation types are license agreements and technical cooperation agreements.

**SPAIN** [TOES20190530002](#) [Full text here](#) [Request the address](#)

A non-profit Spanish research institute from Madrid has designed and synthesized metal oxide cathodes for Mg batteries. Superior intercalation of Mg-ions results in the high energy density. Cathodes of high capacity (up to 250 mAh/g) and ultralong life (>3000 cycles). They are interested in license and technical cooperation agreements.

**UNITED KINGDOM**      **TOUK20190624002**      [Full text here](#)      [Request the address](#)

A UK research institute seeks a lead partner for H2020-SC5-23-201, Multi-stakeholder dialogue platform to promote nature-based solutions call. The research institute can contribute expertise in science policy interface, water and related policies, market research, organising workshops and international collaboration. A research partnership is envisioned.

**SINGAPORE**      **TOSG20190619001**      [Full text here](#)      [Request the address](#)

A Singapore SME has developed the world's first and only PPC (plant protein composite) bio-ink and 3D printed bioscaffold, one of the key components needed for regenerative medicine, tissue engineering, cancer research and 3D cell culture applications. The Singapore SME is seeking licensing and commercial partnerships with technical assistance with MNEs or SMEs of all sizes.

**SLOVENIA**      **TOSI20190613001**      [Full text here](#)      [Request the address](#)

A Slovenian research institute is offering an algorithm for activity recognition with a smartphone and an optional wristband. The algorithm uses context-specific machine-learning models and therefore does not depend on the position of the smartphone on the body. The algorithm outperforms several consumer devices in terms of accuracy in real-life setting. The algorithm is available via licensing or technical cooperation agreement to companies and researchers developing wellbeing applications.

**THE NETHERLANDS**      **TONL20190603001**      [Full text here](#)      [Request the address](#)

A Dutch multinational pharmaceutical company focusses on therapeutic product development in the fields of immuno-oncology and immunologic diseases, using its proprietary transgenic mouse platforms producing human antibodies: common and heavy-chain only antibodies. The company is looking for partners within immuno-oncology or immunologic diseases to license the human antibody platform to, or for product co-development partnering. A research cooperation agreement or a license agreement is foreseen.

**THE NETHERLANDS**      **TONL20190620001**      [Full text here](#)      [Request the address](#)

A Dutch spin-off SME is specialized in nanoimprint lithography. Most important advantage is the ability to make very high resolution nano and micro structures on large wafers of up to 300 millimetres at easy scalable volume and low costs through a reduction of process steps. The SME is interested in commercial agreements with technical assistance to companies interested in developing and producing both low and high volume wafer based nanostructured products.

**UNITED KINGDOM**      **TOUK20190314003**      [Full text here](#)      [Request the address](#)

A UK-based ICT SME specialising in helping companies solve complex data challenges, has developed a low-cost cloud-based data discovery software solution to support company needs for data governance and regulatory initiatives such as GDPR, Solvency II, and International Financial Reporting Standards. Commercial partners are sought to collaborate in market-testing the GDPR focused solution and find new customers under licensing agreements.

**SINGAPORE**      **TOSG20190626001**      [Full text here](#)      [Request the address](#)

A Singapore SME has developed a faster and more sustainable column-less plant extraction method that is liquid-to-liquid and non-ethanol based and optimises the yield of bioactives from botanicals with zero waste. Suited for the food/ agricultural industry and research institutes, it can offer Halal-certifiable, mass market access to high purity plant extracts at low production costs. The SME seeks licensing/commercial partnerships with technical assistance with MNEs/SMEs of all sizes.

**SPAIN**      **TOES20190403001**      [Full text here](#)      [Request the address](#)

Spanish SME geoinformatics consultancy offers services and expertise in geographical information systems (GIS) tools for emergency incident management, this includes dispatching and tracking, real-time operational simulation of the progression and behaviour of forest fires, assessment of fire risk, creation of vegetation fuel maps through novel remote sensing techniques. Partners interested in cooperation in future R&D proposals are sought under research cooperation agreement.

**CZECH REPUBLIC**      **TOCZ20190529001**      [Full text here](#)      [Request the address](#)

A Czech biotech SME offers its expertise in protein engineering, computational approaches and related state-of-the-art software tools. They provide powerful protein optimization services e.g. thermal stabilization of proteins for medical applications or effective enzymes for production of fine chemicals. Partners sought are companies or R&D organisations utilising such proteins in their industrial processes or within research projects for commercial or research cooperation agreement.

**ITALY**      **TOIT20190614001**      [Full text here](#)      [Request the address](#)

An Italian research team has developed a C-band dual-polarization Doppler weather radar. The radar is capable of providing seamless monitoring of precipitation within a distance of 150 km from the radar from which products for a variety of applications can be obtained (eg. upcoming of dangerous weather conditions). The researchers are interested in technical cooperation agreements.

**GERMANY**      **TODE20190619001**      [Full text here](#)      [Request the address](#)

A German SME would like to develop a wave energy converter further. The converter based on the "New Bristol Cylinder" concept - a known but unexplored concept. The company seeks for cooperating and self-financing partners in research, engineering and demonstration activities. Cooperation is possible via a research/technical cooperation agreement, preferably in joint projects with industrial partners and research partners who are prepared to take coordination role or under a financial agreement.

**GERMANY**      **TODE20190618003**      [Full text here](#)      [Request the address](#)

A German diagnostic SME has developed an auto-fluorescence analyser technology for non-invasive and invasive medical applications. The technology is based on a real-time measurement of the NADH enzyme. The functional prototype is able to detect the oxygen level and the vitality of the tissue, which is relevant in numerous diagnostic contexts. The company is looking for a partner interested in production and marketing within a license agreement or commercial agreement with technical assistance.

**ITALY**      **TOIT20190528001**      [Full text here](#)      [Request the address](#)

An Italian company working in aeronautic field has developed software and APPs in order to manage maintenance, operation, logistics, technicians/pilots training for last generation aircraft. The SME makes data analysis to optimize the handling of the fleet and the warehouse. The considered type of agreement is commercial agreement with technical assistance with companies/partners of public and private transports interested to adopt the proposed solution.

**ITALY**      **TOIT20190610001**      [Full text here](#)      [Request the address](#)

An Italian ICT company has developed a catch tracking system using APP, QR Code and batch management and supervision software able to manage fleets of fishing boats or fish markets. The SME is looking for partners interested both to test and to further develop and to optimize the system. The types of agreements sought are technical cooperation and financial agreement.

**SPAIN**      **TRES20190617001**      [Full text here](#)      [Request the address](#)

A Catalan SME developing advanced medical devices and therapies for the treatment of disorders of the cardiovascular system is seeking startups with new solutions and ideas for vascular therapies for technical cooperation agreements. This request is part of an open innovation challenge.

**SPAIN**      **TRES20190624001**      [Full text here](#)      [Request the address](#)

A Spanish SME that produces cakes, biscuits, nougat, and Christmas specialties, is looking for a technology/system that allows reducing the amount of sugar and fat in the final products without reducing the organoleptic properties. The technology should be applicable at an industrial level. The company is looking for a technical cooperation agreement.

**THE NETHERLANDS**      **TRNL20190513001**      [Full text here](#)      [Request the address](#)

A Dutch bakery and specialist in the manufacturing of fine tasting Middle Eastern food treats is looking for cookies production equipment to scale up their bakery process. The company wants to increase their production to an industrial scale. For this purpose they are interested in machines which help to automate and optimize



baking processes. The company is looking for partners that can develop and build bakery equipment in the frame of a technical cooperation agreement.

**ITALY** [TRIT20190513001](#) [Full text here](#) [Request the address](#)

An Italian research group has developed a new therapy to naturally stimulate the production of nerve growth factor (NGF) to increase longevity and mental capacity. The therapy is based on the administration, through a nasal dispenser, of a physiologic solution delivered at high pressure (HPIS). A sprayer devices manufacturer capable of required specifications (see technical specification) is sought. Service and commercial agreement with technical assistance are sought.

**FINLAND** [TRFI20190620001](#) [Full text here](#) [Request the address](#)

A Finnish corporate venturing house is looking for new technologies from start-ups and growth companies to apply for an accelerator program in the maritime field. Applicants are expected from focus areas which are such as waste management, new materials, energy efficiency, artificial intelligence, operational efficiency and transparency and safety. The deadline for proposal submissions is August 11th 2019.

**GERMANY** [TRDE20190618001](#) [Full text here](#) [Request the address](#)

A German city council is seeking an industrial partner who can provide smart sensor systems for the city's waste bins. The waste bin filling level should be measured based on a long range wide area network (LoRaWAN). Partners are sought to equip the waste bins within a commercial agreement with technical assistance.

**SINGAPORE** [TRSG20190619001](#) [Full text here](#) [Request the address](#)

This Technology Request is an open call by leading Singapore corporations seeking innovative solutions in the areas of trade, logistics and connectivity, supply chain and transport, across themes such as blockchain, resource optimisation, artificial intelligence and fintech. Startups, SMEs or research institutions are invited to apply and offer their solution to the Singapore corporations via licensing or technical cooperation through industry or test-bedding projects.

**SOUTH KOREA** [TRKR20190529001](#) [Full text here](#) [Request the address](#)

A Korean company established in 1978 has been No. 1 domestic company with highest yield in the field of neuropsychology. Thus, the company has produced more than 80 types of medicines for treatment of Schizophrenia, tranquilizer, antidepressant, anti-epileptic drugs, and treatment of alcoholic disease. The company is seeking for partners to develop the medicines and enter the international market under commercial agreement with technical assistance and license agreement.

**CHINA** [TRCN20190610001](#) [Full text here](#) [Request the address](#)

The Chinese company is focused on robotics and devoted to intelligent products and services. With the increasing demands for underwater robots, the company plans to invest in R&D and manufacturing in the very domain. It is looking for the remotely operated vehicle and underwater vehicle technical assistance. Potential cooperation could be via the technical cooperation agreement.