

## TECHNOLOGY TRANSFER E-BULLETIN

Date: 02.01.2020



### UKRAINE

[TRUA20191128001](#)

[Full text here](#)

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The enterprise from Ukraine specializing in aircraft machine building is looking for special made parts of engines for testing on its own machines. The enterprise seek potential partners among scientific organizations or an engineering companies that can produce air-engine components made by additive production using advanced, low-density X-TiAl materials. The partnership will be held under the technical cooperation agreement.

### ITALY

[TRIT20191204001](#)

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An Italian company with long-lasting experience in manufacturing and commercialisation of concrete products for floors and building walls, seeks partners for technical cooperation as it is interested to use geopolymers for outdoor paver and firestop blocks and RTD institutions for research cooperation through European projects.

### ITALY

[TRIT20191121001](#)

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Italian company founded in 1947 has developed a solid experience and competence in x-ray and ultrasound technology with applications in the medical, industrial and security market. It is looking for a partner in the field of x-ray image post-processing, with a strong know-how in artificial intelligence development aimed to detect in automatic mode various types of defects (e.g. porosity, cracks) in mechanical parts (e.g. aluminium casts, iron casts) under a technology cooperation agreement

### TURKEY

[TRTR20191015001](#)

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The company is a Turkish startup with the main focus on novel and high-level pharmaceutically active ingredients. They develop a protein inhibitor which is a target-based small molecule, druggable regulatory factor. It inhibits the transcription of genes regulated by a homeobox meis protein by modulating the activity of this protein. They are looking for technical cooperation to develop kits to be used in the determination of meis+ (producing meis proteins on their cells) patients.

### ITALY

[TRIT20191216001](#)

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An SME based in Northeast Italy seeks companies that specialize in surface treatments. In particular, they need to treat a product component made of ceramic with tungsten trioxide. The Italian company is willing to change its ceramic foam to another type of material, if necessary, for better air purification through photocatalysis. They seek companies with coating technologies able to treat ceramics through a manufacturing agreement or commercial agreement with technical assistance.

### CHINA

[TRCN20191129001](#)

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This is a Chinese company specialized in designing and manufacturing of household appliances. The company's main products include refrigerators, freezers, washing machines, televisions, air conditioners, water heaters, extractor hoods and gas cooking stoves etc. Currently, the company is looking for low-noise cryogenic technology for their stirling refrigerator products from European market. The Chinese company prefers commercial agreement with technical assistance cooperation method.

**ESTONIA** [TOEE20191030001](#) [Full text here](#) [Request the address](#)  
The technology is offered by an Estonian SME focused on developing autonomous snow removal and cleaning robots. The self-driving autonomous cleaning robots are offered as a full service including installation, maintenance and 24/7 support. Automating the tedious and time-consuming tasks makes the cleaning operations more productive and cost effective. Open for commercial agreement with technical assistance or technical cooperation, e.g. for testing/piloting at startup campuses.

**ESTONIA** [TOEE20191119001](#) [Full text here](#) [Request the address](#)  
Technology offered by an Estonian SME focuses on developing Smart City, Smart Road and Mobility related products. The intelligent roadside infrastructure unit utilizes artificial intelligence and sensors to collect data of its surroundings. It can predict the trajectories of road users to implement active safety measures and is a key enabling technology for autonomous mobility. Commercial agreement with technical assistance is sought after for piloting the technology in other locations.

**ESTONIA** [TOEE20191119002](#) [Full text here](#) [Request the address](#)  
An Estonian SME has been working on plasma assisted technologies for industrial clients in the heat generation industry. Their lab-tested technology represents a multilayer device to harvest waste heat from the combustion chamber to create plasma without any additional energy to increase combustion efficiency. Commercial agreement with technical assistance and technical cooperation agreement are sought after to test and pilot the technology within industrial heating systems.

**ESTONIA** [TOEE20191203001](#) [Full text here](#) [Request the address](#)  
The Estonian technology SME develops unique Li-ion technology that enables building high capacity, low cost energy storage systems for domestic, commercial and industrial use. The company's innovative solution enables covering 100% of a household's heat and power needs from renewable sources. Commercial agreement with technical assistance is sought after for piloting the technology in different energy storage solutions.

**SPAIN** [TOES20191028001](#) [Full text here](#) [Request the address](#)  
A Basque (Spain) SME is developing a platform with software functionalities and blockchain technology that orchestrates transactions between each electric vehicle (EV) charging station in a simple way with maximum security and traceability. They are looking for partners who would engage in financial and technical cooperation agreements.

**SPAIN** [TOES20191126001](#) [Full text here](#) [Request the address](#)  
A Spanish research team specialized in the development of e-commerce protocols, has developed a novel blockchain-based technology to provide multiparty certified electronic delivery of data. It eliminates the involvement of Trusted Third Parties (TTP), usually an obstacle to extend those types of protocols, and guarantees compliance with the current European regulation. A company willing to implement the technology through a license agreement is being sought.

**SPAIN** [TOES20191205003](#) [Full text here](#) [Request the address](#)  
A Spanish biotechnological research institute offers expertise and equipment in synthetic biology on industrially relevant microorganisms (Fungi and Actinobacteria), omics analysis, isolation and characterization of microorganisms, protein purification and characterization, and process development of microbial high-value products. A research cooperation agreement with companies, research centres or universities is sought. Collaboration in European funding programs will be welcome.

**ITALY** [TOIT20191118001](#) [Full text here](#) [Request the address](#)  
This Italian company, based in Apulia region, is specialized in precision technologies, robotics and mechatronics. The company produces assembly lines for component and car manufacturers, from injectors to clutches and electric motors. Knowing that needs change quickly, the company provides flexible systems that can be easily reconfigured over time. The company seeks commercial agreements with technical assistance with primarily automotive companies.

- SOUTH KOREA**                      **TOKR20190812001**                      [Full text here](#)                      [Request the address](#)  
A Korean company specialized in hybrid solar power generating solutions wishes to expand its overseas markets through the license agreement and commercial agreement with technical assistance. The CPV+PV combined solar module technology offers an effective, practical way to keep solar cell conversion efficiencies high while keeping semiconductor material costs down. Any organization in need of such a solution can be the company's potential client.
- UKRAINE**                      **TOUA20191201001**                      [Full text here](#)                      [Request the address](#)  
A Ukrainian University of Dnipro city offers the technology of continuous, safe and resource-saving gas production from natural gas hydrate deposits to produce an artificial methane mixture for use as an alternative energy source. Advantage is saving of resources, environmental safety, process continuity, ease of transportation in a hydrated state, improving the economic performance of the the extraction industry. The university is looking for partners to sign license or joint venture agreement.
- UKRAINE**                      **TOUA20191203001**                      [Full text here](#)                      [Request the address](#)  
A Ukrainian University offers a three-component method for determining the psycho-physiological and cognitive state of a human. The method solves the problem of diagnosis of cognitive dysfunctions in stroke and cerebral infarction, of neurodegenerative diseases, in traumatic brain injuries, of determination the cognitive features of the human in the systems of professional selection and vocational guidance. The university is looking for partners for joint research.
- UKRAINE**                      **TOUA20191204001**                      [Full text here](#)                      [Request the address](#)  
A Ukrainian SME specializing in the development of solutions for e-mobility and industry 4.0 offers solution for an electric vehicle modular platform of various types and load capacities that allows the rational use of energy, weight and space. The SME is looking for partners to develop steering control system and integrated software under research cooperation agreement or financial agreement with investment partner to fund the prototyping and testing of the modular platform.
- UKRAINE**                      **TOUA20191218001**                      [Full text here](#)                      [Request the address](#)  
A Ukrainian university offers a software product for automated design of mining minerals based on geographic information technologies. The advantage is an increase in labor productivity during geological, design and mining operations, making more justified decisions, and higher mining efficiency. The University is looking for partners among mining companies to sign a license agreement or among design institutes to sign a research cooperation agreement.
- SPAIN**                      **TOES20191202001**                      [Full text here](#)                      [Request the address](#)  
A Spanish SME, highly experienced in hydrography and offshore projects, has developed an autonomous surface vessel (ASV) for inspection of marine structures. This ASV provides a safer and cheaper alternative for obtaining marine data, as well as allowing the remote analysis of the data in real time. The company offers technical cooperation agreements and commercial agreements with technical assistance to companies interested in the use or exploitation of this ASV.
- GERMANY**                      **TODE20191120001**                      [Full text here](#)                      [Request the address](#)  
A German SME offers a software tool that consolidates data from available data sources and streams the data to the on-premise server in real-time using unique, machine learning architectures. It can be used to decide based on data, decrease scrap rate and help workers on the line. The company is looking for industrial partners in new sectors to further develop the software within the scope of a technical cooperation agreement or a commercial agreement with technical assistance.
- LITHUANIA**                      **TOLT20191211001**                      [Full text here](#)                      [Request the address](#)  
A Lithuanian company with over two decades of experience in specialized application software development is looking for system integrators and business management system developers that would be interested in adapting their innovative and easy-to-use software platform for system development, that is used for quick

development of information systems. The company is looking for commercial agreements with technical assistance.

**LATVIA** [TOLV20190307001](#) [Full text here](#) [Request the address](#)

A university from Latvia has developed a technology for formation of thin wall concrete hulls that can be used in ceiling and roof constructions of buildings. University is offering commercial agreement with technical assistance to all interested parties.

**LATVIA** [TOLV20190910001](#) [Full text here](#) [Request the address](#)

An institute from Latvia has developed a technology for converting light radiation into electrical energy. Technology refers to electromagnetic radiation converters that convert light into electricity and can be used for high-efficiency solar cell manufacturing. Institute is looking for commercial agreement with technical assistance.

**LATVIA** [TOLV20190910002](#) [Full text here](#) [Request the address](#)

Latvian university has developed technology for monitoring and control of embedded sensors network. The technology is useful for object monitoring and automated decision making without human intervention. The designed software and wireless sensor types allow to monitor/control/manipulate motion, object's speed, direction, temperature, humidity, light, pressure, composition of the land, and other. The university is looking for commercial agreement with technical assistance.

**LATVIA** [TOLV20190925002](#) [Full text here](#) [Request the address](#)

A company from Latvia involved in bioreactor development and manufacturing in industrial scale for various applications offers a technology and bioreactors for bioleaching - metal extraction from ores through the use of living organisms. The company is offering commercial agreement with technical assistance. The desired cooperation partner can be SME involved in mining industry or R&D unit interested in development of new products and/or applications.

**UNITED KINGDOM** [TOUK20191216001](#) [Full text here](#) [Request the address](#)

A UK company has extensive knowledge of pre/clinical drug efficacy screening experiments, vast omics datasets and bioinformatics, supporting discovery and validation of various links in oncology. Laboratory experiments bundled with cloud-based bioinformatics and novel patient data are on offer. Biopharma companies and consultants who need genetics-aided cancer research or clinical decision support for cancer treatment personalisation are sought for commercial agreements with technical assistance.

**UNITED KINGDOM** [TOUK20191002001](#) [Full text here](#) [Request the address](#)

UK company has developed a state of the art technology that can increase farms' performance by boosting yields and decreasing water and energy costs as well as the other operational costs. They are looking for farmers or farmers union to test their technology in the field over commercial agreement with technical assistance. They are also interested in talking to investors for financial agreement that can help this product to go global markets.

**UNITED KINGDOM** [TOUK20191206001](#) [Full text here](#) [Request the address](#)

A UK-based SME has developed a blood substitute based on their novel technology for self-assembly of fatty acid microparticles. The SME has shown this technology encapsulates haemoglobin and can be used in perfusion to maintain kidneys ex-vivo. The SME is looking to further develop this technology and is seeking partners with expertise in blood substitutes. It is envisaged that the partnership will take the form of a technical cooperation agreement or a license agreement.

**UNITED KINGDOM** [TOUK20191205003](#) [Full text here](#) [Request the address](#)

A UK-based SME has developed a novel antimicrobial corneal bandage based on a biocompatible polymer. Currently undergoing a clinical trial to generate data for CE marking the technology has been shown to be safe and efficacious. The SME is looking for an industrial partner for further work towards commercialisation with the partnership envisaged as a licensing agreement.

**UNITED KINGDOM**      **TOUK20191205001**      [Full text here](#)      [Request the address](#)

A UK-based SME has developed a novel biocompatible polymer material that acts as a scaffold for cell and tissue growth. This material is being developed for regenerative medicine application in skin, ocular, joint and spinal cord. The SME is looking for industrial partners operating in regenerative medicine for further development. It is envisaged that the partnerships will take the form of research cooperation agreements or technical cooperation agreements.

**UNITED KINGDOM**      **TOUK20191205002**      [Full text here](#)      [Request the address](#)

A UK-based SME has developed a wound dressing using a novel biopolymer material that is biocompatible, antimicrobial and easy to manufacture. They are looking to partner with a company operating in the healthcare and medical devices fields for further development and commercialisation of the wound dressing technology. It is envisaged that the partnership will take the form of a licensing agreement.

**SLOVAKIA**      **TOSK20191128001**      [Full text here](#)      [Request the address](#)

Slovak SME is offering a new seed coating method that makes use of superabsorbents, greatly enhancing a seed's ability to absorb (200-500 times its own weight) and release the captured water gradually in times of drought. As a result, crop seeds coated with this product have more moisture available to support the process of germination and the first phase of growth, resulting in higher yields per hectare. They seek partners for testing via technical cooperation agreements.

**SPAIN**      **TOES20191129002**      [Full text here](#)      [Request the address](#)

A Spanish research institution, in conjunction with two American universities, has discovered that the use of SHIP-1 inhibitors enhance the non-specific response of trained innate immune cells. This increased activity may offer an improved prophylactic treatment or prevention of subsequent infections by means of the enhancement of the memory and non-specific responses of trained innate immune cells. They are looking for partners, with not preferred location, to establish a license agreement.

**LATVIA**      **TOLV20191217001**      [Full text here](#)      [Request the address](#)

A small Latvian electronics and ICT company offers advanced computer vision solutions for application in pig farms. The company offers thermal imaging and computer vision for identification of sick piglets and measurement of pig's weight from a distance using camera video streams. The company is looking for commercial agreement with technical assistance.

**LITHUANIA**      **TOLT20191031001**      [Full text here](#)      [Request the address](#)

Optical coatings laboratory at a scientific research institute in Lithuania is offering all-silica (or germanium) coatings for the operation in the spectral range from infrared to ultraviolet. A sputtering technology together with glancing angle deposition method is used to produce coatings with broad and novel properties. The institute is interested in technical cooperation agreement, as well as R&D cooperation or license agreements.

**ITALY**      **TOIT20191209001**      [Full text here](#)      [Request the address](#)

An Italian start-up offers e-learning service both as software developer and instructional designer. No ICT skill is required to create interactive learning experiences. The entire process can be completely customized to suit every need. The company is looking for collaboration in product and content development in healthcare, soft skills and hard skill training. They are looking for partners for technical cooperation and license agreement.

**ITALY**      **TOIT20191122001**      [Full text here](#)      [Request the address](#)

An Italian software developer with over 30 years of experience has developed an augmented reality (AR) solution to support field maintenance operators. Based on a mobile app (Android / iOS), it allows technical backoffice experts to interact with the field operator (video conference) both to assess the situation and to perform the required tasks. The company seeks system integrators, developers, end users for commercial agreements with technical assistance or licence agreements.

**TURKEY**      **TOTR20190624001**      [Full text here](#)      [Request the address](#)

A Turkish inventor has developed an agrochemical that is 100% organic which is an alternative to existing insecticides and is now looking for partners who are willing to cooperate under a license agreement.

- UNITED KINGDOM**      **TOUK20191209001**      [Full text here](#)      [Request the address](#)  
The UK university has developed an innovative assay to measure the anti-fibrotic activity of test compounds and wishes to commercialise this under a licensing agreement, research cooperation agreement or technical cooperation agreement.
- UNITED KINGDOM**      **TOUK20191209002**      [Full text here](#)      [Request the address](#)  
A UK company has developed a hosted capability which enables secure interoperation of data from any source. System symmetry enables flexible relationships between sources applicable across multiple use cases. Gaining traction within intelligent built environments and integrated transport solutions, it is proven and is seeking new challenges. The company seeks private and government consultants and developers for licensing and technical cooperation agreements.
- SPAIN**      **TOES20191205001**      [Full text here](#)      [Request the address](#)  
Spanish biotechnological centre offers in vitro immunomodulatory assays for the characterization of probiotics, ingredients and active pharmaceutical ingredients, where parameters are measured (phagocytic or arginase activity, production of reactive nitrogen species or of different cytokines). Companies, research institutions and universities are sought to establish research agreements or technological cooperation. Proposals to be part of an international consortium of researchers will be welcome.
- SPAIN**      **TOES20191202002**      [Full text here](#)      [Request the address](#)  
Spain research institute, developing indoor air treatment technologies to reduce the need for ventilation in buildings, wants to develop a novel, cost-effective and environmentally friendly bioprocesses for the in-situ abatement of indoor air gas pollutants. Partnership requested are companies, universities and research institutes interested in developing new indoor air purification technologies, in order to achieve a technical or research cooperation agreement.
- UNITED KINGDOM**      **TOUK20191202001**      [Full text here](#)      [Request the address](#)  
A UK non-profit research organisation offers socio-economic expertise in working with communities, particularly in rural areas, in the topics of development, innovation and governance and using qualitative and quantitative methods in a consortium. They have experience in H2020 projects, working with industry, policymakers and different stakeholders implementing multi-stakeholder and multi-sector approaches. They are seeking a research cooperation agreement for the call DT-GOVERNANCE-05-2018-2019.
- FRANCE**      **TOFR20191210001**      [Full text here](#)      [Request the address](#)  
A French manufacturer of handmade biscuits with milk skin is looking for industrial companies from the agro-food sector interested in implementing a technology transfer about milk optimisation process in order to incorporate milk skin to their own recipes to improve the softness texture of their products. A commercial agreement with technical assistance is envisaged.
- GERMANY**      **TODE20191016001**      [Full text here](#)      [Request the address](#)  
A German family-owned SME, located in the south of Germany, is working in the field of innovative materials. Over a period of eight years it has developed an advanced cooling system with an integrated energy harvesting function. This system is designed to cool and to generate electric energy at the same time. Furthermore, the system can be applied together with electronic systems, batteries and fuel cells. Partners willing to enter into a research or technical cooperation agreement are sought.
- ITALY**      **TOIT20191113001**      [Full text here](#)      [Request the address](#)  
An Italian company has developed a system and application that uses one's favourite music, not as a simple accompaniment for physical activity, but as a real-time guide to achieve training goals, matching music with pace frequency or heart rate. The Italian company is interested in finding companies or organisations as testers for the whole system and application through technical cooperation agreements, research or commercial agreements with technical assistance.

**GREECE** [TOGR20191203002](#) [Full text here](#) [Request the address](#)

A Greek NGO with years of expertise in open software, open data, open content, open standards and e-government seeks public/private entities in the ICT and education sectors with R&D departments to co-develop open technology innovations in those sectors through a research cooperation or technical cooperation agreement.

**SWITZERLAND** [TOCH20191216001](#) [Full text here](#) [Request the address](#)

A Swiss university offers an efficient synthesis route to oxygen-isotope compounds. Oxygen isotopes are a helpful but expensive tool to trace chemical processes in pharmaceutical or chemical research. Chemical reactions with such isotopes should not waste any material. The proposed synthesis route uses minimal amounts of oxygen isotopes to make very effective oxygen transfer reagents. Industrial partners with interest to use or commercialise the technology are sought for licensing agreement.

**THE NETHERLANDS** [TONL20191127002](#) [Full text here](#) [Request the address](#)

A Dutch SME is a leading global provider of a silicon-nitride based waveguide platform technology to develop and produce photonic integrated circuits (PICs). Most important advantages are low propagation losses of the PIC, an extensive library with validated building blocks and low cost multi project wafer runs. The SME is interested in commercial agreements with technical assistance to Original Equipment Manufacturers and system integrators using PICs in applications.

**THE NETHERLANDS** [TONL20191127001](#) [Full text here](#) [Request the address](#)

A Dutch SME is a packaging foundry for photonic integrated circuits (PIC). The SME offers packaging and assembly services for all major PIC platforms and is specialized in hybrid integration of chip-to-chip and fiber-to-chip modules in scalable production volumes. The SME is interested in commercial agreements with technical assistance to Original Equipment Manufacturers and system integrators supporting the growing demand for PIC based modules.

**ROMANIA** [TORO20191024001](#) [Full text here](#) [Request the address](#)

A Romanian company developed a technology for sewer systems construction or other utilities that requires no workers inside the trench and no trench support shields. The solution consists in a robot and its additional equipment and accessories, specially designed to perform all task which are done by a worker inside the sewerage trench. The company seeks companies in the construction and civil engineering sectors to develop and utilize the technology, under technical cooperation.

**SERBIA** [TORS20191125001](#) [Full text here](#) [Request the address](#)

Serbian IT startup company has developed a media tool enabling competitions on a Facebook page, like quizzes, questionnaires, and creating reports with user data/statistics of engagement. The tool aims to support marketing campaigns by increasing the number and activity of followers. It can be used without special training to quickly set competitions. The partners, usually PR agencies or SME's, are sought for either license agreement or commercial agreements with technical assistance.

**GERMANY** [TODE20191209001](#) [Full text here](#) [Request the address](#)

A German university offers a process for producing knitted fabric with two different surfaces. The process is twice as fast as conventional methods. The invention is at technology readiness level 2. A prototype will be built. Licensees are sought to implement and further develop the solution.

**GERMANY** [TODE20191206001](#) [Full text here](#) [Request the address](#)

A German university offers a new method to degas blood extracorporeally, e.g. during surgery, via a cardiomy reservoir on microporous hollow fibers. The method is very efficient and allows simultaneous oxygenation of the blood. Licencees are sought.

**GERMANY** [TODE20191203001](#) [Full text here](#) [Request the address](#)  
A German university has developed an axial blood pump with an integrated external rotor motor and foldable blades, which, among other things, is characterized by removable fixation, low wear and tear and low heat generation. Thus this pump is suitable for both short-term cardiac support and long-term use. The university offers a technical cooperation and license agreement.

**GERMANY** [TODE20190726001](#) [Full text here](#) [Request the address](#)  
A German university developed a spraying process for the structured coating of a yarn with functional materials in a continuous process. The substances applied in several layers can have different electronic or electrochemical properties and can be used in a variety of ways. The university offers a license agreement and/or a technical cooperation agreement.

**SPAIN** [TOES20191129001](#) [Full text here](#) [Request the address](#)  
A Spanish research group focused on recycled materials obtained by recovering and recycling of construction waste, offers a new technique for testing and bio-repairing construction materials. This technology can reduce the construction costs, decreasing the carbon footprint and reducing the environmental impact. The research group seeks partners for financial, research and technical cooperation agreements.

**ITALY** [TOIT20191119001](#) [Full text here](#) [Request the address](#)  
An Italian SME specialized in drug discovery has developed and patented a non-internalizing, linker-less antibody-drug conjugate (ADC) targeting galectin-3 binding protein (Gal-3 BP) for treating cancer. This molecule has shown potent therapeutic efficacy combined with good stability and safety profile. The SME is looking for pharmaceutical companies or investors for financial or license agreement to further develop the product in clinical trials. A research cooperation agreement is also foreseen.