



STU

**SLOVAK UNIVERSITY OF
TECHNOLOGY IN BRATISLAVA**



STU Scientific
S.r.o.

Spinouts from
Slovak University
of Technology
in Bratislava



STU Scientific, Ltd.

STU Scientific, Ltd. is a limited company fully owned by Slovak University of Technology in Bratislava. It was established as a highly specialized unit on March 1st, 2008. The Company's mission is to promote economic valorisation of intellectual property of the Slovak Technical University, its academic staff and students.

The main goal is on knowledge transfer, know-how and technical solutions application with the use of latest scientific approaches. STU Scientific's purpose is to support knowledge-based economy and technological transfer by linking University activities with Industry and business partners.

Ownership structure of the child spin-out companies (shares) gives clear evidence of the initial institutional (STU) and personal (academic staff and students) contribution to each business. STU Scientific, Ltd. is acting on behalf of the University. Companies use personal entrepreneurial spirit for transferring research results and skills into business. This approach is new in the Slovak Republic.

These activities resulted in establishment and successful operations of five spin-off companies so far.

Address:

Pionierska 15
831 02 Bratislava
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belko@stuscientific.sk

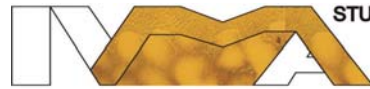
www.stuscientific.sk

Company
was founded
in 2008.

STU



STU Scientific s.r.o.



HYDROTECHNIKA STU

ENFEI

STUVITAL, Ltd.



STUVITAL, Ltd. is focused on research and development of functional food ingredients, active supplements and biotechnological utilization of microorganisms in “healthy foods”. In further degree, the optimization of usable technologies, improvements and increasing of processing effectiveness through innovations are solved on laboratory and industrial scale. The main interest are in applications and preparation of fortified and health beneficial food products, especially on a cereal base, using innovative technologies and utilizing by-products of grain processing.

Currently, the spin-off is not only developing cereal fiber rich products, but also testing their bioactive properties and verifying their usage in the operational part. The set of products rich in beta-glucans, fiber, antioxidants, vitamins and minerals is aimed to prevent chronic diseases such as obesity, type two diabetes, hypertension, metabolic syndrome, etc.

Actually, company solved the project of re-utilization of processing waste in cereal plants by bio-fermentation techniques, where the transformation of cereal wastage on to new ingredients for foods are applied. Another project exploits extrusion and adiabatic expansion processing as operation for development of new ingredients in combination with bio-fermentation and organic chemical modifications. By this treatment, creation of cost effective food matters become available (main products are based on cereal fibre and starches with specific ready-made properties for food production).

Address:

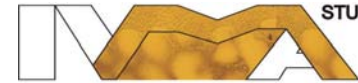
Pionierska 15
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Company
was founded
in 2009.

IVMA STU, Ltd.



IVMA STU, Ltd. is a research, development and consultancy company in the field of composite and dominantly in the field metallic materials. IVMA STU, Ltd. was created in 2009 as a spin-off company of Slovak University of Technology.

IVMA STU, Ltd. focuses on the research and development of materials for specific applications, especially for applications where are require extreme conditions such are extreme pressure, temperature, aggressive atmosphere and so on.

IVMA STU, Ltd. provides expert advice on materials failure, corrosion, degradation, expert advice on topics relating to damage materials in industry.

IVMA STU, Ltd. offers service:

- The deposition of hard, wear and heat resistant metallic and ceramic's layers on electric conductive surface.
- The Measurements of electrical conductivity, mechanical properties and structure analysis of materials.

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Company
was founded
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SMME STU, Ltd.

SMME STU, Ltd. is a research, development and consultancy company in field of electro mobility, vehicles, vehicles mechatronic systems and security systems. It focuses on the transfer of theoretical knowledge in to practice with application of modern methods of virtual prototyping, modeling, simulations and experimental testing.

In field of electromobility, the company deals with:

- Research, development and consultancy of electric vehicle's powertrain, modern energetic sources for electric vehicles and back-up power supplies. Redesign of vehicles on electric vehicles.

In field of vehicles, vehicles mechatronic systems and security systems the company deals with:

- Research, development and consultancy of design of vehicles chassis, powertrain, vehicles for special purposes (unmanned ground/air vehicles) for security and private sector.

List of studies and projects:

- Preliminary project of hybrid electric drive for tracked vehicle BMP;
- Innovation possibilities of brake system and floatation of vehicle ALIGATOR (for Armed Forces of the Slovak Republic);
- Final technical project of hybrid electric drive for tracked vehicle BMP;
- New generation of the mobil detecting laboratory devices;
- Reconstruction of tracked drive on wheeled drive;
- Drone pilot less miniaircraft UAV;
- Modelling of the biomechanical effects after IED towards personnel in cars.



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Company
was founded
in 2010.

Hydrotechnika STU, Ltd.

Hydrotechnika STU, Ltd. is a spin-off company of the Slovak University of Technology in Bratislava founded by employees of University's Department of Hydraulic Engineering, Faculty of Civil Engineering.

The scope of services is particularly research, development, guidance, design, and engineering in the following fields:

- River training
- Water structures
- Waterways and navigation objects
- Flood protection
- Software applications for operating the water management and hydropower systems

Research and development is provided by laboratory research, mathematical modeling and „in situ“ measurements.

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Company
was founded
in 2011.

ENFEI, Ltd.

Field of Power System Operation:

Optimization of development, power grid operation and energy mix at all voltage levels in the power system. Analyses of operational states of the power grid. Proposal of solution for reducing the power losses in power grids. Calculations of steady states and dynamic stability of the power system, short-circuit conditions. Proposal of load shedding and electrical protection setting. Power system failures analyses. Power system connectivity analyses of new resources.

Power quality and reliability monitoring. Power quality analyses, measures for power quality improvement, i.e. elimination of effects of poor power quality to sensitive equipment. Proposal of compensation devices, including installation design. Consulting and expertise services in power engineering.

Design and delivery of technical solutions for decentralised power supply with renewable energy resources, their effective management and utilization, power grids optimization for spreading integration in the power system within the Smart Grid.

Field of Smart Grid:

Testing and verification of systems, particular functional components and communication technologies of smart technologies.

Processing and evaluation of data, data central, data store. Data processing for the needs of Smart Grid. System integration, data exchange in the energy market.

Area of data security, personal data protection. Smart technologies integration in power engineering.

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Company
was founded
in 2013.



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