Biology Park Brno a.s.

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Park location on the map: here

Reg.nr.: 41602706
Director: Ing. Michal Burian, MBA (info@biologypark.cz)

Operating data of the park

Membership in STPA: YES
State of the park: accredited
Partner in project SPINNET: NO
Launch day: 1.1. 2016

Founder(s): Biology Park Brno a.s.
Owner(s): Biology Park Brno a.s.
Operator(s): Biology Park Brno a.s.

Type of entity: Biotechnology Park
Criteria for acceptance of innovation firm: 1. Proven innovative potential
2. Less than 3 years since the company was based

Description of the park

Introduction

Biology Park Brno is a science and technology park in Brno with a focus on biotechnology and biomedicine. The main purpose of this project is to support the competitiveness and transfer of research and development results in the field of biomedical and biotechnological applications, with an emphasis on encouraging the transfer of knowledge and technology between higher education institutions and business entities. There are spaces of various types available for rent – classical offices, biological laboratories and chemical laboratories. All these areas can be also used by business start-ups in a mode of business incubator.
For our clients, we also offer the contacts mediation and the possibility of using the outputs of regional research centers and universities. We provide contacts and opportunities to present your products and ideas to business angels, venture capital funds as well as individuals offering financial participation and support. Our clients can also take an active part in the projects implemented by us or the Regional Chamber of Commerce of South Moravia and therefore influence the objectives and use of outputs of the projects being solved. For those interested in using the reputation and address of a science and technology park, we offer the possibility to use a virtual office service with its own mailbox and various levels of other services. We also organize various workshops, either alone or in collaboration with companies that are settled in Biology Park, aiming at enhancing our clients´ professional know-how, sharing experiences and networking between the companies.

Description of technology transfer

Technology transfer at Biology Park Brno a.s. focuses on supporting the transfer of knowledge, technologies, and research and development (R&D) results into practical applications, particularly in the fields of biotechnology, medicine, advanced technologies, and related high-tech sectors.

These activities are carried out by supporting technology-oriented companies, research organizations, and innovative projects operating within Biology Park Brno. Emphasis is placed on connecting academic and applied research with the business sector, promoting the commercialization of R&D outcomes, and creating an environment for collaboration between research institutions and companies.
Technology transfer is primarily facilitated through the provision of specialized infrastructure, support for research and innovation activities, sharing of know-how, and the development of technologically advanced solutions with practical application potential.
The activities of resident entities include the following:
TRL Space Systems, s.r.o.
TRL Space Systems, s.r.o. focuses on the development and application of advanced technological solutions, particularly in the areas of systems engineering, technology readiness levels (TRL), and innovative technologies with high application potential, including solutions for the space sector. The company's activities support the transfer of technological solutions from the research phase into practical use.
Examples of technology transfer implemented by TRL Space Systems include:
-Successful launch of the TROLL nanosatellite to demonstrate advanced space technologies and data services, utilizing onboard data processing and hyperspectral imaging.
-Participation in the international EnVision mission (ESA/NASA), where TRL Space contributes to the development of electronics for the VenSpec H scientific instrument.
-Presentation of an integrated satellite and drone data solution at IDET 2025, showcasing the development of complex technological systems.
Zaitra s.r.o.
Zaitra, s.r.o. focuses on the development and application of advanced data analytics tools, artificial intelligence (AI), and predictive modeling, particularly for biotechnology, life sciences, and research-oriented startups. Its goal is to transform complex academic and research data methods into practical software solutions that support innovation, efficient product development, and decision-making in applied practice.

Examples of technology transfer:
-Implementation of AI-driven onboard data processing for satellite missions, enabling satellites to process large volumes of data directly in orbit and deliver relevant outputs to customers.
-Participation in the SLAVIA space mission, where Zaitra software processes hyperspectral data directly onboard the satellites.
-Development and application of the SKAISEN product platform for AI-optimized data analysis, reducing the demands of data transfer from orbital missions.
-Zaitra provided an advanced AI onboard data processing solution for the Czech defense mission (SATurnin-1).
-TROLL – Onboard cloud-based screening and object detection on hyperspectral data, including preprocessing of data for a 6U CubeSat.
-Demonstration of AI onboard data processing technology on the VZLUSAT 2 mission, where data was processed directly on the satellite using Zaitra software.

ERY s.r.o. (IFCOR)
ERY s.r.o. (IFCOR) focuses on research, development, and application of innovative solutions in the biological and biomedical sciences. Its activities support the transfer of knowledge and technologies

from research into practice and contribute to the development of innovative approaches in the life sciences.
ERY s.r.o. (IFCOR) provides accredited laboratory diagnostics and implements standardized laboratory procedures in clinical biochemistry, hematology, immunology, microbiology, and molecular diagnostics, which are used by healthcare facilities and clinical partners. These processes facilitate the transfer of laboratory methods from research environments into routine clinical practice and support interoperability of healthcare systems.
FNUSA – ICRC
The International Clinical Research Center (FNUSA ICRC) represents research infrastructure focused on preclinical and clinical research, primarily in medicine, biomedicine, and translational research, with an emphasis on addressing complex healthcare challenges. Within the Biology Park Brno premises, research teams conduct advanced studies leading to the identification of new diagnostic and therapeutic approaches and promote interdisciplinary collaboration among researchers to transfer research outcomes into healthcare practice.
Several FNUSA-ICRC research teams are based at the Science and Technology Park, summarized below with their hypotheses and objectives:
-Neuroscience and Translational Medicine Team aims to deepen understanding of aging and age-related disorders, particularly neurodegenerative diseases. The study of behavioral and cognitive neurology is linked with stem cell research and animal models of aging and neurodegeneration, with a particular focus on synaptic and axonal changes.
-Cellular and Molecular Immunoregulation Team focuses on various aspects of human immune responses, particularly linking basic immunity mechanisms and immune cell signaling to the development of disorders and pathologies. Key areas include the role of immune responses in sepsis and septic shock progression, including the study of long-term effects. The team investigates TLR receptor involvement in acute immune responses, chronic inflammation, and tissue regeneration using mucosal 3D organoids and immune cells, as well as molecular connections between innate immune signaling and metabolic changes in myeloid cells.
-Mechanobiology of Disease Team investigates cardiovascular disorders using tissue and cell models to identify mechanobiological changes accompanying pathological states during aging, heart disease development, and cancer. The working hypothesis is that defects in the mechanosensory apparatus contribute to age-related pathologies. The team aims to characterize cellular mechanosensors involved in heart pathology and identify potential biomarkers and molecular processes contributing to cardiac phenotypes.
-Epigenetics, Metabolism, and Aging Team studies histone splice variants, specifically macroH2A1, as energy sensors and oncogenes in various tumor types and their roles in cellular reprogramming during induction of pluripotent stem cells. The goal is to identify side effects of the “youth factor” GDF11 in obese mice and humans, study allelic variants of SIRT6 associated with longevity in liver cell metabolism, and investigate macroH2A1 isoforms and DNA repair components in endothelial cells reprogrammed to induced pluripotent stem cells (iPSCs).
The outputs of these research teams are systematically transferred into applied and clinical practice through collaboration with technology companies, spin-off projects, and industrial partners operating within Biology Park Brno.

Innovative entrepreneurship training

Education for innovative entrepreneurship is ensured by close cooperation with the Regional Development Agency of South Moravia, the Regional Chamber of Commerce of South Moravia, the Chamber of Commerce of the Czech Republic and the regional branch of CzechInvest. With their support, we organize various seminars and workshops for settled subjects, the aim of which is to increase the competitiveness of settled innovative companies. These events are therefore focused both on legal, subsidy and accounting background, as well as on technological and business

consulting.

Advisory services

Biology Park offers a comprehensive service in technology transfer and in the area of project creation and management. It includes help in choosing a suitable subsidy program to support investments, including help in the complex processing of a project application, including advice in the awarding of public contracts. We provide joint marketing and PR, help with involvement in national and international networks and projects, in establishing communication with research and development workplaces, universities and industry.

Innovation infrastructure

Our science and technology park is based on the regional innovation strategy of the South Moravian Region and the Statutory City of Brno for the period 2021-2027, which aims to increase the economic competitiveness of the entire South Moravia. This strategy also defines the sectors that are most prominently represented in the region and historically show the greatest potential for strengthening competitive advantage based on knowledge and innovation. These sectors are:
a) Software and services in IT
b) Instruments and devices for measuring and sensing
c) Advanced machines and engineering equipment (engines, turbines, hydraulic equipment, special production machines)
d) Instruments and devices for measuring and sensing
e) Advanced machines and engineering equipment
f) Energy engineering and electrical components (distribution devices, motors, generators)
g) Medical and pharmaceutical products, diagnostics
h) Aerospace (aeronautical and space technologies)
Taken through the lens of our biotechnology park, points b) and g) concern us most from the point of view of the focus of the subjects settled here.
The strategic goals of RIS JMK include, for example:
• Creating a home for globally successful entrepreneurs with the aim of multiplying the number of people with a desire to do business, increase the number of dynamically growing companies, increase the number of companies capable of international expansion with their own product, expand the community and deepen the cooperation of local business leaders.
• To strengthen the cooperation of managers of innovative foreign corporations and their involvement in the development of the ecosystem.
• Encourage the use of skills through collaboration with practice.
• Strengthen the international attractiveness of research and education in profile fields and address the challenges of the contemporary world, strive to diversify the activities of global companies in the region for the use of the present knowledge potential.
• Increase the activity of local investors and investor clubs, form the background for the creation of business hubs.
• Mobilize the partnership of the best research teams with companies.
We believe that we also contribute to these selected strategic goals of RIS JMK through the activities of our science and technology park.

Cooperation with universities

Arrangement and offering of internships for Masaryk University students at companies located within our science and technology park. Mutual use of technological infrastructure and equipment. Facilitation of teaching activities by company representatives within the park as part of courses at Masaryk University. Provision of lecturing capacities from Masaryk University for events held in the

park. Supply of materials and contacts to support students working on bachelor's, master's, and doctoral theses. Further collaboration takes place at the level of resident companies, including the organization of professional seminars on the application of research results in practice, particularly by the FNUSA–ICRC research section.

Services provided to innovation companies

by STP
external
Consultancy
☐
☑
business plans
☐
☑
technological advisory
☐
☑
patent advisory
☐
☐
certification advisory
☑
☑
financing advisory
☐
☑
accounting
☐
☑
legal advisory
☐
☑
marketing advisory
☐
☑
education (courses for enterpreneurs)

by STP
external
Technical services
☐
☐
secretarial services
☑
☐
telephone exchange
☑
☐
telephone, fax
☑
☐
copy
☐
☐
text processing
☑
☐
reception
☐

☑
buffet, cantine
☑
☐
conference space
☑
☐
computer for technical usage
☐
☐
workshops
☑
☐
laboratories
☐
☑
access to data banks
☐
☐
exhibition space

by STP
external
Financing
☑
☐
equity
☐
☐
credits
☐
☐
subsidies
☐
☐
other forms

Service expenses

STP service costs
☐
only according to actual costs
☑
only fixed payment tariff
☐
fixed payment and additional charge for use
☐
in lumps: rent, security, cleaning, phone, post

Oher costs (p.a.)
acc. to usage
fixed CZK/m2

heating
☐

electricity
☐
1600

others
□
100

total

1700

Rent (p.a.)
CZK/m2

office space
3584

production space

others
4300

Statistical data

innovation
other
institutions
TOTAL
Companies
4
4
Employees
145
145
Rented area m2
3064
3064

STP

Land area
3978 m2

Built up park area
3270 m2

Utility area
3804 m2

- Rented area
3064 m2

= Remains for rent
740 m2

Innovation companies

Ery s.r.o. (IFCOR)
Reg.nr.: 28297768
ERY s.r.o. (IFCOR) is a Czech technology-oriented company operating in the fields of biotechnology and biomedicine. It focuses on providing comprehensive laboratory and diagnostic services for general practitioners, outpatient specialists, hospital departments, and veterinary facilities. The company performs a wide range of tests in biochemistry, hematology, immunology and allergology, microbiology, molecular diagnostics, medical genetics, nuclear medicine, and pharmacology. Its activities include the implementation and application of innovative diagnostic methods, including molecular-genetic approaches applicable in prevention, diagnosis, and personalized medicine.

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WWW: http://ifcor.cz

Technologies:
0100 - Bioengineering
0102 - Biomedicine
0105 - Equipment for bioengineering
0108 - Molecular biology

Branches:
73 - Research and development
85 - Health and social work

FNUSA – ICRC
Reg.nr.: 00159816
The International Clinical Research Center (FNUSA–ICRC) is a research infrastructure focused on preclinical and clinical research in medicine, biomedicine, and translational research, with an emphasis on applying research results in healthcare practice. Within Biology Park Brno, research teams conduct advanced studies that lead to the identification of new diagnostic and therapeutic approaches and promote interdisciplinary collaboration among research experts.

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Technologies:
0100 - Bioengineering

0102 - Biomedicine
0108 - Molecular biology
0402 - Bioinformation technology
0704 - Medical equipment and systems

Branches:
73 - Research and development
85 - Health and social work

TRL Space Systems, s.r.o.
Reg.nr.: 03467112
A Czech company focused on the development and application of advanced technological solutions, particularly in the areas of systems engineering, Technology Readiness Level (TRL), and innovative technologies with high application potential, including solutions for the space sector. It supports the transfer of technological solutions from the research phase into practical implementation.

Sandra Jiroušková
E-mail: hello@trlspace.cz
WWW: https://www.trlspace.com/

Technologies:
0301 - Computer-assisted production, control and planning, robotics
0400 - Information and communications technology
0409 - Artificial intelligence
0416 - Software development technology
0417 - Transaction security
1402 - Aviation engineering
1403 - Aerospace engineering

Branches:
73 - Research and development

Zaitra s.r.o.
Reg.nr.: 08908508
Zaitra s.r.o. is a Czech company focused on the development of innovative solutions in the fields of biomedicine and digital technologies, with a particular emphasis on applications in personalized medicine and healthcare software. The company supports the transfer of research and development results into practice and the commercialization of its technologies through technology-oriented projects and collaboration with research institutions.

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Technologies:
0400 - Information and communications technology
0409 - Artificial intelligence
1403 - Aerospace engineering

Branches:
73 - Research and development

Subject:
weXelerate
Country:
Austria
Type of cooperation:
other

Description: weXelerate is the biggest start-up and innovation hub in the area of Central and Eastern Europe based in Vienna. They associate big companies and start-ups as well as investors with an interest in new digital business models. Every year they support 100 the most innovative start-ups from all over the world, that are focused on energy, infrastructure, Industry 4.0, media, insurance and banking as well as cross-industry technologies as IoT, Al, mobility, chatbots, blockchain and cyber security.

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