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## Czech Aerospace Research Centre - Prague Science and Technology Park

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Fax: +420 286 920 930  
E-mail: [vtp@vzlu.cz](mailto:vtp@vzlu.cz)  
WWW: <http://www.vzlu.cz>

Park location on the map: [here](#)

Reg.nr.: 00010669  
Director: JUDr. Petr Matoušek ([petr.matousek@vzlu.cz](mailto:petr.matousek@vzlu.cz))

### Operating data of the park

**Membership in STPA:** YES  
**State of the park:** accredited  
**Partner in project SPINET:** NO  
**Launch day:** 10.3. 2010

**Founder(s):** Czech Aerospace Research Centre  
**Owner(s):** Czech Aerospace Research Centre  
**Operator(s):** Czech Aerospace Research Centre

**Type of entity:** Joint stock company (JSC)  
**Criteria for acceptance of innovation firm:** individual

### Description of the park

#### Introduction

Science and Technology Park VZLÚ Prague is placed in Prague - Accredited Science and Technology Park VZLÚ Prague is placed in Prague - Letnany near Metro station named Letnany (C line) and near PVA - Prague Exhibition Centre. Founder, owner and operator of the Park is Výzkumný a zkušební letecký ústav, a.s. (Czech Aerospace Research Centre, VZLÚ). The Park is a part of regional innovative infrastructures and plays active role in development of knowledge economy and industry with main focus on Aerospace, Defence and Security. Innovative neighborhood is also suitable for automotive industry, railway industry, power engineering and civil engineering. In the Park there are available several spaces for wide range of activities - offices, laboratories, workshops and stores. The Park offers a lot of services which are needed by innovative companies, e.g. consulting in R&D, consulting in industrial property rights, support of R&D results transfer, education, information technology as well as consulting in law or economics, etc. Available are also conference and meeting rooms with capacity up to 60 seats, completely equipped with presentation technology. Innovative business is supported also in form of science and technical workshops (e.g. aerodynamics, composites, strength and durability of structures) which are focused on transfer of knowledge. The Park accomplished number of a successful transfers of technology, e.g. infusion technology for manufacturing of composite structures (multiply), technology of friction stir welding, algorithms for aerodynamics calculations etc.

## **Description of technology transfer**

VZLUSAT-1 a Czech nanosatellite of a CubeSat

Application of composite technology for aircraft propellers manufactures

A true innovation in batteries - efficient energy storage

Bonding technology of PTFE sealing into suction pipeline of aerial engine

Technology of preparation and application of paint systems containing MWCNT

## **Innovative entrepreneurship training**

Organization of excursions and opponency of projects

## **Advisory services**

technological advisory, patent advisory, certification advisory, financing advisory, legal advisory, education (courses for entrepreneurs), secretarial services, telephone exchange, telephone, fax, text processing, reception, conference space, computer for technical usage, workshops, laboratories

## **Innovation infrastructure**

The Park is a part of regional inovative infrastructures and plays active role in development of knowledge economy and industry with main focus on Aerospace, Defence and Security. Innovative neighborhood is also suitable for automotive industry, railway industry, power engineering and civil engineering.

## **Cooperation with universities**

The Czech Technical University in Prague

Brno university of technology

University of Chemistry and Technology Prague

## **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 entrepreneurs)

**by STP**

**external**

**Technical services**

- 
- secretarial services
- 
- telephone exchange
- 
- telephone, fax
- 
- copy
- 
- text processing
- 
- reception
- 
- 
- buffet, canteen
- 
- 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

#### **Other costs (p.a.)**

**acc. to usage**

**fixed CZK/m<sup>2</sup>**

heating



electricity



others



total

#### **Rent (p.a.)**

**CZK/m<sup>2</sup>**

office space

production space

others

### **Statistical data**

innovation

other

institutions

**TOTAL**

**Companies**

7

48

4

59

**Employees**

70

150

20

240

**Rented area m2**

8956

8223

2759

19938

STP

**Land area**

232981 m2

**Built up park area**

76871 m2

**Utility area**

20118 m2

**- Rented area**

19938 m2

**= Remains for rent**

180 m2

**Innovation companies**

**HE3DA s.r.o.**

Reg.nr.: 28949935

HE3DA Ltd. is an innovator in applied research and commercialization of battery technologies. The company's 3D technology and Li-battery production processes are based on three dimensional electrodes using lithium nano-materials (patented HE3DA® technology).

Tel.: + 420 225 115 306

E-mail: [info@he3da.cz](mailto:info@he3da.cz)

WWW: <http://www.he3da.cz/>

Technologies:

0200 - Power engineering

0202 - Power engineering, power electronics (other)

0204 - Solar engineering

0206 - Storage techniques

1104 - Nanotechnology (other)

Branches:

- 29 - Manufacture of machinery and equipment n.e.c.
- 31 - Manufacture of electrical machinery and apparatus n.e.c.
- 73 - Research and development

**NIMDA Co. Ltd. - organizační složka**

Reg.nr.: 26718481

Development and manufacturing for military and defence

Josef Havlík

Tel.: +420-225115419

Fax: +420-225115424

E-mail: [info@nimda.cz](mailto:info@nimda.cz)

WWW: <http://www.nimda.cz>

Technologies:

- 1404 - Rail- and road-traffic engineering
- 9000 - Hydraulics and Mechanics

Branches:

- 29 - Manufacture of machinery and equipment n.e.c.
- 73 - Research and development

**Prusa Research s.r.o.**

Reg.nr.: 24213705

The Czech Producer of 3D Printers.

E-mail: [info@prusa3d.cz](mailto:info@prusa3d.cz)

WWW: <http://www.prusa3d.cz>

Technologies:

- 0300 - Production and process engineering
- 9003 - Design
- 9007 - Fabricate from Plasticine
- 9011 - Software development

Branches:

- 73 - Research and development

**SERENUM, a.s.**

Reg.nr.: 01438875

SERENUM's mission is to provide customers with comprehensive solutions in the area of electronics [PDF] and mechanics [PDF] design and development. The focus is on inertial and measurement systems as well as time and frequency control and mechanical design and processing of parts or subsystems (cases, mechanisms, locking devices, fixtures) including theoretical and numerical analysis, for space and terrestrial applications. Due to our company know-how, we can serve our partners with customized turn-key solutions also for other application segments. The aim is to supply

top products and services with superior reliability and quality which are at the forefront of the corresponding technical domain. We treat our customer requirements with maximum consideration and helpfulness. Highly versatile solutions are offered to address customer needs.

Mgr. Radek Peřestý

Tel.: +420 225 115 107

E-mail: [info@serenum.cz](mailto:info@serenum.cz)

WWW: <http://www.serenum.cz>

Technologies:

0903 - High-speed electronics

0906 - Microelectronics (other)

1005 - Signal processing in microsystems

1403 - Aerospace engineering

Branches:

73 - Research and development

### **SPEEL Praha, s.r.o.**

Reg.nr.: 49703374

Research and development of avionics systems

Fax: +420-286923721

E-mail: [info@speel.cz](mailto:info@speel.cz)

WWW: <http://www.speel.cz>

Technologies:

0801 - Measurement and control

0900 - Microelectronics

0904 - Information storage technology

1000 - Microsystems engineering

1402 - Aviation engineering

1404 - Rail- and road-traffic engineering

9900 - Other

Branches:

31 - Manufacture of electrical machinery and apparatus n.e.c.

62 - Air transport

73 - Research and development

### **Stratosyst s.r.o.**

Reg.nr.: 08135738

There is an unused potential that stratosphere can provide us for exploring our universe because thick bottom atmosphere blocks out most of the infrared wavelengths. Currently the cost for obtaining infrared data is high because the only method is observation from satellites. Also, the number of orbital infrared observatories is low so this makes the procedure for obtaining customer-specific data is very time-consuming. The advantage of stratosphere observation by Stratosyst is that space sky can be observed for an extremely long period of time in conditions comparable to space satellites for a fraction of the cost. Moreover, the hardware will be recovered after the end of each

mission. The prototype will be a fully functional infrared observatory which will stay in the stratosphere (higher than 20km) and maintain the position over extended period of time. Position of the platform will be feedback-controlled by GNSS data.

Martin Farkač

Tel.: +420776355314

E-mail: [info@stratosyst.com](mailto:info@stratosyst.com)

WWW: <http://www.stratosyst.com/>

Technologies:

0400 - Information and communications technology

9001 - Controlling Systems

9010 - Monitoring Systems

Branches:

72 - Computer and related activities

73 - Research and development

93 - Other service activities

Subject:

**TRICEPS - Tilt Rotor Integrated Air intake and Engine Protection Systems**

Country:

Austria

Type of cooperation:

common project

Description:

Development of integrated engine air intake and protection systems for Tilt Rotor" by designing, manufacturing, testing and qualifying the left-hand and the right-hand side air intakes and their integrated engine protection system for the NextGenCTR technology demonstrator, contributing to meet the goals of the CS2JU FRC WP1. TRICEPS will deliver the air intake, its engine protection system and all the relevant sub-systems at TRL 7.

Contact web:

<https://www.ait.ac.at/>

Contact e-mail:

[office@ait.ac.at](mailto:office@ait.ac.at)

Subject:

**DREAM**

Country:

Poland

Type of cooperation:

common project

Description:

The aim of the project is to design and manufacture a full-composite multi-element hybrid composite structure serving as a motor cover for the AIRBUS Helicopters high-speed helicopter based on the X3 concept of CS29. The output of the project will be a composite flight piece designed for ground and flight testing of the prototype.



Contact web:

<https://projectdream.io/>

Subject:

**LATTE**

Country:

Poland

Type of cooperation:

common project

Description:

The project is focused on the development and production of composite full fairing for main rotor head for a fast compound rotorcraft developed by Airbus Helicopters. The project will deliver the composite fairings for ground and flight tests of the prototype. The LATTE is European project belongs to the joint technology initiative JTI Clean Sky Joint 2. The project is led by the Polish research institute ILOT. Next participant is the Czech manufacturer of aerospace composite parts, the company LA composite. VZLU is involved in design, structural analyses and design of manufacturing tooling. It also provides a whole test campaign including material and functional tests.

Contact web:

<https://www.vzlu.cz/project/latte-full-fairing-for-main-rotor-head-of-the-lifercraft-demonstrator/>

Subject:

**3TANIUM**

Country:

Austria

Type of cooperation:

common project

Description:

The main objective of the 3TANIUM is the establishment of NDT methods that are capable to provide the secure detection of process related critical flaws and defects and to understand their effects on material and mechanical properties in Ti6Al4V AM parts. The overall aim of the proposed 3TANIUM project is the quantitative assessment of the applicability of NDT methods applied on appropriately and innovatively post-treated (heat- and surface-treated) AM parts to realize benefits offered by AM in the aeronautical industry. Therefore, evaluation of reliable Non-Destructive Testing and Analysis (NDT/NDA) techniques for precisely and securely assessing eventual defects and their criticality in AM parts will be performed.

Contact web:

<https://3tanium.eu/>

Contact e-mail:

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