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## **SVÚM, a.s. Science and Technology Park Čelákovice**

Tovární 2053  
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WWW: <http://www.svum.cz>

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

Reg.nr.: 25797000  
Director: Mgr. Ivo Hain ([hain@svum.cz](mailto:hain@svum.cz))

### **Operating data of the park**

**Membership in STPA:** YES  
**State of the park:** accredited  
**Partner in project SPINNET:** NO  
**Launch day:** 1.1. 2014

**Founder(s):** SVÚM a.s.  
**Owner(s):** SVÚM a.s.  
**Operator(s):** SVÚM a.s.

**Type of entity:** Research institute

**Criteria for acceptance of innovation firm:** We require a high-quality business plan, product or service innovation

### **Description of the park**

#### **Introduction**

In Čelákovice, the Science and Technology Park SVÚM a.s. Within the VTP, 4 new companies found their new background. 10 new jobs have been created, especially for small businesses.

Operating company SVÚM a.s. is a research organization in the field of basic and applied research and development of metallic materials (ferrous and non-ferrous metals), plastics and composites. He participates in research projects in the Czech Republic and abroad within the framework of the calls of the Ministry of the Czech Republic, the Technology Agency of the Czech Republic and international projects within the European Union (COST, EUREKA, Framework Programs, etc.) and is one of the most important research organizations of applied material research and testing institutions Czech Republic

#### **Description of technology transfer**

SVÚM a.s. deals with the following activities in the field of metals, plastics, composites:

a. Research and development - applied research on the development of new alloys, technologies for the production and processing of materials and metallurgical products from metals and their alloys; consultancy, expertise, supervision, forensic expertise, prediction of life of machine parts and tools, analysis of damage to investment units, components and tools

- b. Materials testing – accredited laboratories according to ČSN EN ISO 17025 from CIA, is a member of the Association of Czech Testing and Laboratories, own certificate from GE (Transportation Aviation), performs tests of mechanical properties (static, shock and fatigue), metallographic analyzes, chemical analysis, corrosion tests, high temperature tests (creep);
- c. Welding – SVÚM has a long tradition in the field of testing and certification of welding personnel and expert services. He is a member of the Czech welding company – ANB, performs testing of welding and soldering personnel, cooperates with welding schools during teaching, processes WPS, WPAR, WPQR, pWPS technology, insures steel structures inspection, contracting welding supervision and supervision.
- d. Special technology and production

Anti-corrosion coatings – PTFE (Teflon) and modified Xylan, Xylar, Xylac and Teflon S PTFE (Teflon) coatings for anti-adhesive, sliding and electroinsulation purposes up to 1 x 0.8 x 0.8 m.

Corrosion-resistant coatings of fluoroplasts Halar (ECTFE) and others up to the dimensions of 1 x 0.8 x 0.8 m for chemistry, pharmacy and biotechnology.

Products made of PTFE, Teflon – filled PTFE (polytetrafluoroethylene) reinforced with metal fabric. Produced in SVUM a.s. according to their own know-how and original MS. of the invention. This is a composite foil for bearing foils and bearing bushings for automotive manufacturers using METALOPLAST® bearing housings for door and bonnet hinges.

METALOPLAST® is a low-friction universal bearing material with high resistance to wear, high load bearing capacity and low maintenance requirements, simple manual and machine workability and other benefits:

- High load capacity up to 250 MPa
- Temperature range up to 260 ° C
- Self-lubrication when running dry
- low thermal expansion
- good thermal conductivity
- Inaccuracy
- High corrosion resistance to fuels, oils and aggressive substances, low purchase and operating costs and simple and lightweight design solutions.

High Power Permanent Magnets – Produced by SVÚM a.s. – with use for particle separation, handles, special magnets, cleaning magnets for oil pipelines.

Magnetic separators are used to separate ferrous parts such as screws, metallic chips from liquids, or bulk materials, for example, used in the plastics, mining, woodworking or waste recycling industries

Coatings and metallic parts of Xylan, DELTA-MKS®, Delta-Tone 9000 and Delta-Seal fluoroplasts, Dip-Spin Coating for anti-corrosion and sliding treatment

## **Innovative entrepreneurship training**

SVUM a.s. implements 2 projects to increase worker expertise:

a) Operational Program Research, Development and Education Call number: 02\_16\_014 Name of the call: Capacity building of MEYS, title of the project: „Development of technology transfer in SVÚM a.s.

b) Operational Program Employment, call number: CZ.03.1.52 / 0.0 / 0.0 / 16\_043 / 0005390, title: „Company Training of Employees of SVÚM a.s.“

## **Advisory services**

Industrial property consultancy;

- ☐ Consultancy in the area of Certification and Inspection Center of Welding – Welding School.
- ☐ Selecting a partner in the field of R & D
- ☐ Technical and consulting activities in the field of materials, strength, fatigue, structure and technology of processing, consultancy and supervision of the construction of investment units and supervision of the supply of materials.
- ☐ Examination of tribological properties (abrasion, adhesion) of materials, heat treatment technology of structural and tool steels.
- ☐ Comprehensive consultancy and expertise in the field of corrosion engineering for chemical industry, food industry, power engineering and engineering, solution of corrosion damage and operational accidents.
- ☐ Realization of testing, accreditation tests and custom research and development

### **Innovation infrastructure**

VTP seeks appropriate grant programs for its clients.

SVÚM a.s. helps prepare and collaborates on research projects

VTP cooperates with the Chamber of Commerce Czech Republic.

The VTP representative is a member of the SVTP CR Committee.

### **Cooperation with universities**

Generation renewal has taken place in the past years, but it is still working to ensure the working symbiosis of senior scientists with incoming new employees – university students. During each year, the management of the company looks for employees of different professions on the basis of demand by the department managers. Therefore, the company deliberately recruits new staff to specific places that are professionally vacant or where the continuity of scientific work is needed. The continuous replenishment of human resources is one of the most important management tasks. It is a continuous process that responds to the external and internal factors of production and the needs of the company.

The company cooperates with many technical universities in the Czech Republic on the basis of cooperation on research projects. Within these projects, students of the 4th and 5th years are also involved in the scientific teams, who have the opportunity to gain experience in practice. Graduates of universities are currently the majority of new young employees of SVÚM a.s. Long-term cooperation with universities is reflected both in the joint solution of research and development projects as well as in the further education of SVUM a. S employees, in the framework of ongoing mutual workshops.

### **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

2000

production space

3000

others

1500

## Statistical data

innovation

other

institutions

**TOTAL**

**Companies**

3

1

4

**Employees**

58

10

68

**Rented area m2**

7500

80

7580

STP

**Land area**

21116 m2

**Built up park area**

8130 m2

**Utility area**

12693 m2

**- Rented area**

7580 m2

**= Remains for rent**

5113 m2

## Innovation companies

**NACE Global s.r.o.**

Reg.nr.: 28468015

NACE Global s.r.o., is a producer and supplier of semifinished products from plastics and polymer composites since 2014, activity: Production of protective sprays from filled and non-filled fluoropolymers, non-electrolytically applied zinc microlamin coatings and various coatings of modified fluoropolymers. The company owns the ISO 9001: 2008 certificate

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Technologies:

1213 - Surface coatings

Branches:

73 - Research and development

74 - Other business activities

### **SVÚM a.s.**

Reg.nr.: 25797000

SVÚM is a research organization in the field of basic and applied research and development of metals (ferrous and non-ferrous metals), plastics and composites and their properties testing in accredited laboratories. As part of its activities is also involved in research projects at Czech Republic and abroad. The company founded in a new science and technology park in Celakovice near Prague

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Technologies:

0801 - Measurement and control

0903 - High-speed electronics

1100 - Nanotechnology

1208 - High performance polymers

1213 - Surface coatings

1217 - Composite materials

9007 - Fabrice from Plasticine

9900 - Other

Branches:

25 - Manufacture of rubber and plastic products

73 - Research and development

### **SVÚM Testing**

Reg.nr.: 14257688

The company NACE Global s.r.o. , which is a 100% shareholder of SVÚM a.s. – the research organization founded the spin-off company SVÚM Testing s.r.o. on 28 February 2022. , Tovární 2053, 250 88 Čelákovice, ID: 142 57 688, for the purpose of commercializing the results of scientific work created by the research organization SVÚM a.s.

Other reasons are the effort to secure capacities for the research activities of SVÚM a. s., expansion of capacities for commercial activities, greater flexibility in the private entity's decision-making on the offers and demands of the business sector and the transfer of business risks outside the research organization. SVÚM Testing s.r.o. will carry out material testing – tests of mechanical properties (static, impact and fatigue), metallurgical and chemical analyses, corrosion tests,

tests at high temperatures (creep)

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Technologies:

0800 - Measurement and control

1100 - Nanotechnology

1101 - Nanoproduction processes

1105 - Nanomaterials

1200 - New materials

1205 - Energy materials

1213 - Surface coatings

1217 - Composite materials

1404 - Rail- and road-traffic engineering

9002 - Technical Equipments

Branches:

73 - Research and development

74 - Other business activities

Subject:

**Kompetenznetz Rail Berlin-Brandenburg GmbH Friedrich-Franz-Straße 19 D-14770  
Brandenburg an der Havel**

Country:

Germany

Type of cooperation:

other

Description: Kompetenznetz Network Rail Berlin-Brandenburg GmbH (Knrbb GmbH) je průmyslová síť, která se zaměřuje především na průmysl dopravní a železniční.

Contact web:

<http://knrbb-gmbh.de/en>

Contact e-mail:

[ralf-meinsen@knrbb-gmbh.de](mailto:ralf-meinsen@knrbb-gmbh.de)

Subject:

**HIPERMAT**

Country:

Spain

Type of cooperation:

common project



Description: The HIPERMAT project comprehensively focuses on the R&D of new materials and production processes, which focus on the iron sector (hot pressing and foundry), the non-ferrous sector (high entropy alloys and new ceramic coatings) together with engineering sector (furnace manufacturers). The case of the value chain selected in HIPERMAT it starts with the melting of raw materials in the casting industry for the production of hot components pressing furnaces. These furnaces, in turn, are used in the manufacturing process to produce materials new generation with low weight. These components are mostly used in the transport sector and directly contribute to carbon neutrality by 2050.

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