SVÚM, a.s. Science and Technology Park Čelákovice

Tovární 2053
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Park location on the map: here

Reg.nr.: 25797000
Director: Mgr. Ivo Hain (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 NACE Global s.r.o. owner of SVÚM 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

Just like every year, SVUM primarily supplemented its staff in scientific and technical positions. During 2025, it offered internships for university students with a technical focus as well as students from vocational schools to secure personnel resources for positions such as technicians, equipment operators, etc. In 2025, SVÚM again employed 2 bachelor interns from CTU in Prague and TUL Liberec, so that after completing their university studies they could become permanent junior research staff. Under the supervision of senior researchers, these promising young researchers gain experience within the framework of research projects. This year, two students from the electrical engineering vocational school also completed internships, which was satisfactory for both the Secondary Vocational School Čelákovice s.r.o. and SVÚM. One of them became a permanent employee of SVÚM. Through these activities, SVUM ensures the transfer of knowledge and know-

how within the company. The established system continues, in which university graduates are employed by SVÚM as new research staff after completing their studies or doctoral programs. In recent years, universities have Fifteen young graduates were hired, most of whom have proven themselves. Two employees continued their doctoral studies at CTU and UCT, among whom Ing. Agáta Foitlová successfully completed her doctoral studies at the end of 2025. This policy will continue to be applied in the following years 2026–2027. Given the predominant activity in research and development, emphasis is placed on the educational process and on recruiting engineers and doctoral students from universities. All new university graduates are encouraged to pursue doctoral studies. For recruiting new employees, management will cooperate with CTU, the University of Chemistry and Technology, Brno University of Technology, and VŠB-TU Ostrava, among others. At VO SVUM, employee training was conducted as every year to enhance qualifications. By implementing educational projects, the company ensures the development of its employees in terms of the necessity of lifelong learning and continuously increasing their competitiveness in the labor market and job sustainability. The development of the competencies and skills of both current and future employees develop in connection with the priority in the National RIS3 strategy

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 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
☑

others


total

Rent (p.a.)
CZK/m2

office space
3000

production space
4000

others
2500

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

Ing. Jiří Krejčík CSc.
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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:
LUE 231007 „BRACER - BRake pArtiCles Emission Reduction
Country:
Portugal
Type of cooperation:
common project

Description: Research cooperation

Contact web:
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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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