

2019 POLAND@CEEN

Organizers:



Honorary patronage:



Big Science, big possibilities



BIG SCIENCE HUB

Join a venue where business meets science

www.big-science.pl

Hello, CERN!

Cooperation with Big Science has been the focus of Wroclaw Technology Park since its inception, especially with CERN.

We integrate Polish business around Big Science market, and we are fully equipped to help Polish companies to execute orders from its institutions. To do so we run projects such as BIG SCIENCE HUB and organize Poland@CERN. I hope, that 2019 edition will strengthen Polish cooperation with CERN. I wish all its participants good business conversations and discovering new business opportunities.

Maciej Potocki
President of
Wroclaw Technology Park

We are pleased to present Polish companies that will take part in Poland@CERN 2019. Our visit to the European Organization for Nuclear Research will be a good opportunity to talk about collaboration between the Polish high-tech environment and CERN.

Poland@CERN 2019 starts on April 2nd and will last for three days. I have no doubt that Polish business is getting stronger in Big Science. Our companies have discovered the potential offered by this market and want to benefit from it. Their technology and infrastructure enable them to compete with high-tech companies from all over the world. I hope that B2B meetings during Poland@CERN 2019 will show you their potential and Poland's collaboration with CERN will continue to grow dynamically.

Sylvia Wójtowicz
ILO CERN

Poland@CERN 2019 - agenda

April 2nd

9:30 – 10:00 – Registration, Coffee
(hosted by organizers)

10:00 – 13:00 – Session: Opening

- Opening speech - Thierry Lagrange, Head of Industry, Procurement & Knowledge Transfer Department CERN (10 minutes)
- Opening speech - representatives of Ministry of Science and Higher Education and Ministry of the Foreign Affairs Republic of Poland (15 minutes)
- Introduction to CERN. Best suppliers and new prospects for collaboration – Anders Unnervik, Head of Procurement and Industrial Services (20 minutes)
- Polish science – Maciej Chorowski, Director, National Centre of Research and Development (15 minutes)
- Presentation of Polish companies/participants (115 minutes)

13:00 – 14:00 – Lunch break

14:30 - Visiting CERN (CMS, Data centre) – in two groups

19:15 – Cocktail (hosted by organizers)

April 3rd

10:00 – 11:00 – Session: Opportunities for Polish business

- Presentation of upcoming tenders at CERN – Jerome Pierlot, Procurement Officer in Industry, Procurement & Knowledge Transfer Department CERN (15 minutes)
- Technology transfer from CERN to industry – Giovanni Anelli, Group Leader, Knowledge Transfer Group CERN (15 minutes)
- HL LHC - new business opportunities – Isabel Bejar Alonso, HL-LHC Technical Coordinator CERN (15 minutes)
- Call for tenders in ONZ (presentation in Polish) – Marcin Nowak, Ministry of the Foreign Affairs Republic of Poland (15 minutes)

11:00 – 17:00 – Session: Dual meetings

- Individual meetings of Polish companies, procurement office representatives and engineers of particular CERN sections
- Individual meetings of Polish companies and Polish community at CERN

April 4th

10:00 - 12:00 – Session: New challenges

- Activity proposals - discussion with participants of Poland@CERN 2019
- Summary of the missions, final conclusions

12:00 – The end, departure

Meet us at Poland@CERN 2019!

Below you can find a list of companies that will visit CERN on 2-4 April 2019 as part of Poland@CERN 2019. In this list you can find procurement codes assigned to them. On the following pages, we present in detail the companies that can become CERN suppliers. B2B meetings will be held in English.

We hope for successful meetings and conversations!

Click on the company logo to view its presentation.



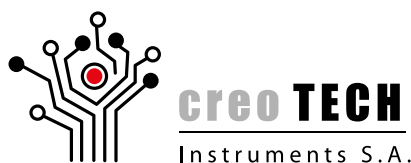
01	Civil engineering, building and technical services
05	Mechanical Engineering and raw materials
06	Vacuum and low temperature



04	Information technology
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02	Electrical engineering and magnets
06	Vacuum and low temperature



02	Electrical engineering and magnets
03	Electronics and radio frequency



02	Electrical engineering and magnets
06	Vacuum and low temperature

CALM DESIGN

01	Civil engineering, building and technical services
04	Information technology
05	Mechanical Engineering and raw materials
10	Health, safety and environment
11	Transport, handling, vehicles and access equipment
12	Office supply, furniture, communication and training
13	Services on the CERN site



01	Civil engineering, building and technical services
02	Electrical engineering and magnets
05	Mechanical Engineering and raw materials
06	Vacuum and low temperature
13	Services on the CERN site



08	Optics and photonics
09	Gases, chemicals, waste collection and radiation equipment
10	Health, safety and environment
11	Transport, handling, vehicles and access equipment

06 Vacuum and low temperature

04 Information technology

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04 Information technology

03 Electronics and radio frequency

06 Vacuum and low temperature

SOFTCOM

07 Particle and photon detectors

02 Electrical engineering and magnets

08 Optics and photonics

Scanway
imaging space

03 Electronics and radio frequency

NCBJ

07 Particle and photon detectors

08 Optics and photonics

sparkflow

01 Civil engineering, building and technical services

02 Electrical engineering and magnets

03 Electronics and radio frequency

05 Mechanical Engineering and raw materials

06 Vacuum and low temperature

07 Particle and photon detectors

10 Health, safety and environment

13 Services on the CERN site



SpaceForest
innovative solutions

02 Electrical engineering and magnets

03 Electronics and radio frequency

04 Information technology

05 Mechanical Engineering and raw materials

04 Information technology

13 Services on the CERN site

TECHTRA
TECHNOLOGY TRANSFER AGENCY

03 Electronics and radio frequency

07 Particle and photon detectors

Procurement codes

01 Civil engineering, building and technical services

02 Electrical engineering and magnets

03 Electronics and radio frequency

04 Information technology

05 Mechanical Engineering and raw materials

06 Vacuum and low temperature

07 Particle and photon detectors

08 Optics and photonics

09 Gases, chemicals, waste collection and radiation equipment

10 Health, safety and environment

11 Transport, handling, vehicles and access equipment

12 Office supply, furniture, communication and training

13 Services on the CERN site



Industry sectors:

Power engineering, Cryogenics, Welding,
Laser technologies

About Best:

BEST Systemy Grzewcze, established in 1989, is a traditional company with an innovative and development-oriented perspective. We firmly believe that diversity is an important value that we want to share with all of our partners from all over Europe. We value women as integral part of our team, putting emphasis on equality of opportunity and encouraging creativity amongst our designers, acknowledging that diversity fuels innovation. Across nearly 30 years we managed to finish numbers of projects in power engineering, cryogenics and refrigeration. We cooperate with many academic facilities from all over Poland including: Wrocław University of Technology, Polish Center for Technology Development PORT, Gdańsk University of Technology, Jagiellonian University, Warsaw University of Technology and Jan Wyżykowski University. We managed to successfully accomplish many development projects including cold heat exchanger and laser methane detection.

Core competences:

Our company operates in 4 departments: Engineering, Cryogenics, Science and Space. In the Engineering department we provide complex solutions in power engineering for industry. In BEST Cryogenics we have developed and patented cold heat exchanger which provides recovery of low entropy from process of regasification of liquefied methane, nitrogen, argon etc. Its efficiency is confirmed by tests on our existing LNG regasification plant in Milejów, Poland. We also realize cryogenic installations from project stage to launch. In BEST Science we develop our innovative ideas for technological development. One of our successfully finished project is the cold heat exchanger. Amongst the others we developed: vacuum welding, electromobility microgeneration and biotechnological bacteria utilization. In BEST Space we use airborne laser technology to detect methane leakages. We are currently developing project to make our prototype lighter and able to transport into Earth's orbit.

Experience in Big Science Projects:

We look forward to start our cooperation within Big Science projects.

BEST Systemy grzewcze

www.systemy-grzewcze.pl

Procurement codes

01

Civil engineering, building and technical services

05

Mechanical Engineering and raw materials

06

Vacuum and low temperature

Meet us at Poland@CERN 2019



Mariusz Koba
Owner



Marcin Magierowski
Project Manager



Dawid Oruba
Project Manager



Mikołaj Podgórski
Partner, Scanway (laser scanning technologies)



Company size

Small

Contact us



Towarowa 15, 58-100 Świdnica



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best@systemy-grzewcze.pl

01

04

05

10

11

12

13

CALM DESIGN

DESIGN & STRATEGY CONSULTANCY STUDIO

Industry sectors:

Creative Industries / Design Management

About Calm Design:

We are a multidisciplinary team supporting company development through design and strategic consulting. We believe that direct and long term relationships lead to multifaceted benefits and lasting values. We support in this field as well as in the implementation of projects for production, sales, marketing and PR.

Core competences:

We combine human expectation with business and science world by providing design management tools and team of designers.

Solving problems by design thinking tools and combining multidisciplinary knowledge team of different specialist, engineers, humanists and designers.

Experience in Big Science Projects:

We are looking for new projects in that field.

Calm Design

www.calmdesign.eu

Procurement codes

01 Civil engineering, building and technical services

04 Information technology

05 Mechanical Engineering and raw materials

10 Health, safety and environment

11 Transport, handling, vehicles and access equipment

12 Office supply, furniture, communication and training

13 Services on the CERN site

Meet us at Poland@CERN 2019



Mateusz Kalita
Owner



Company size

Small

Contact us



Piłsudskiego 74, 50-020 Wrocław



+48 607 856 500



hello@calmdesign.eu



CloudFerro

Industry sectors:

IT sector, Space sector

About CloudFerro:

CloudFerro (CF) is a Polish technological company established at the beginning of 2015 by a group of experienced executives of IT and telecom businesses. The company specializes in large scale storage and Big Data processing, including satellite imagery. CloudFerro provides its customers with dedicated servers, private and public computing clouds and fully administrated virtual data centres. The solutions are based on OpenStack – an open source cloud system. CloudFerro is the only company in Poland to integrate services of bare metal and virtual servers in one homogenous system. CloudFerro's cloud computing system provides extensive API, which enables full integration with customer platforms. The Infrastructure of servers and systems is based in Tier3 independent data centers in Warsaw, Poland. Company is certified for compliance with ISO 9001 and ISO 27001 standards.

As part of the CREODIAS platform (www.creodias.eu), the company hosts and processes tens of petabytes of data from Copernicus Sentinel satellites, while providing dedicated tools, such as a satellite products search engine (finder.creodias.eu); or a satellite imagery viewer (browser.creodias.eu).

The Company has built a world-class team of top engineers and programmers specializing in cloud computing, design, implementation and management of advanced IT systems. Our IT staff and support is available on 24/7 basis.

Core competences:

- Cloud computing environment based on Openstack system with all key elements: virtual machines, single server VMs (full physical server with a single VM and very fast passthrough NVMe storage – a combination of advantages of a dedicated server and a cloud VM), dedicated baremetal servers, GPU configuration (optional for physical & single server VM's), containers, operating system and software images
- Storage services: volume storage: magnetic HDD storage, fast SSD storage, backup solution (in remote locations), image service (OpenStack Glance), snapshots, object storage and free access to Earth Observation (EO) big data storage with satellite data and additional data services like data disk upload and download

CloudFerro

www.cloudferro.com

Procurement codes

04

Information technology

Meet us at Poland@CERN 2019



Stanisław Dalek
Vice President



Urszula Mielcarz
Business Development Manager



Przemysław Mujta
Products Development and Sales | Support Manager



Company size

Small

Contact us



Nowogrodzka 31, 00-511 Warszawa



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biuro@cloudferro.com

- Virtual networking services: virtual networks, virtual routers, Internet connectivity, public IP numbers, Load Balancer as a Service virtual (LBaaS) appliance, fixed bandwidth Internet connectivity;
- Security services: authentication and authorization service (OpenStack Keystone), access groups, Firewall as a Service (FWaaS) virtual appliance, VPN as a Service (VPNaaS) appliance, software upgrades.
- Additional services: cloud orchestration solution, general reporting and monitoring services, direct data connections to the platform, data marketplace application, elements of application marketplace, engineering support and consulting and project implementation.

Experience in Big Science Projects:

Main clients and projects:

- For European Space Agency (ESA) CloudFerro provides and operate EO Cloud platform (EO Innovation Platform Testbed) and Copernicus DIAS platform (Earth Observation Data Integration and Analysis System) – CREODIAS www.creodias.eu
- CDS Hybrid Cloud for European Center for Medium Range Weather Forecast (ECMWF)
- EOSC Hub (the European Open Science Cloud Hub)– CloudFerro provides cloud computing resources
- S2GLC (The Sentinel-2 Global Land Cover project founded by The European Space Agency (ESA) through its Scientific Exploitation of Operational Missions (SEOM) element) - CloudFerro provides cloud computing resources in the scope of CREODIAS platform
- CENAGIS - "Center of the Geoinformatics Satellite Computing Analyses with Laboratory dedicated to testing/certification of the geoinformatics products": Data repository with computing nodes of scientific and commercial character. CloudFerro is in charge of the commercial computing cloud. Project lead by Warsaw University of Technology, financed by (NCBiR – National Center of Research and Development).

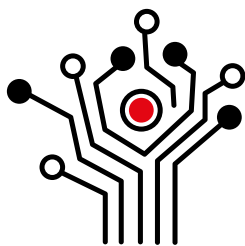
CloudFerro

www.cloudferro.com

Procurement codes

04

Information technology



creo TECH
Instruments S.A.

Industry sectors:

Electronics development and manufacturing

About Creotech:

Creotech Instruments S.A (CTI) was established in 2008 as a spin-out of a scientific project "Pi of the Sky" looking for gamma ray bursts. Its dedicated R&D and production teams specialize in design and manufacturing of electronics for space and scientific instrumentation as well as scientific cameras for astronomical purposes. As a member of the Open Hardware Repository (OHWR) initiative Creotech designs and manufactures scientific instrumentation (in particular – FPGA-based control and measurement electronics and data acquisition cards) for all major Big Science experiments (CERN, DESY, Sirius in Brasil, GSI in Germany). The space heritage of the company includes: assembly of electronic modules for power supply units for MXGS ASIM (ESA) and for CASISS ExoMars (ESA), hardware design for several other ESA projects, ASIM Technology Support project (ESA GSTP), OPS-SAT project (FPGA HDL development), designing and manufacturing of PCBs for commercial satellites. Last but not least, CTI is presently involved in the process of development and commercialization of Sinara hardware. It is an open-source hardware ecosystem designed for use in quantum physics experiments by a collaboration including M-Labs, Warsaw University of Technology, US Army Research Laboratory, the University of Oxford, the University of Maryland and NIST Boulder.

Core competences:

- Development and manufacturing of control and measurement systems
- Real time and hard real time FPGA-based electronics
- White Rabbit sub-ns time synchronization systems
- Certified (automotive, medical, space) manufacturing services
 - QMS certified under ISO 9001:2009
 - QMS certified under ISO 13485:2012
 - ECSS standards
 - Production line in ISO8 and ISO7 cleanroom environment
- R&D services: design of control electronics and test systems
- Electrical and functional tests performed in an ESD protected lab
- Quick track prototyping of electronics

Creotech Instruments



www.creotech.pl

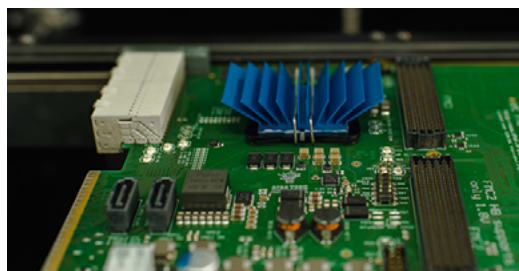
Procurement codes

02 Electrical engineering and magnets

03 Electronics and radio frequency

Meet us at Poland@CERN 2019




-  Anna Kaminska, PhD
Business Development for Scientific Instrumentation
-  Grzegorz Kasproicz, PhD
Head of R&D



Company size

Medium

Contact us

-  Okulickiego 7/9, 05-500 Piaseczno
-  +48 222 464 575
-  kontakt@creotech.pl

Experience in Big Science Projects:

Examples:

Name and address of the company issuing the order:

CNPEM,
Rua Giuseppe Maximo Scolfaro 10000, Campinas, SP
Brasil

Brief description of the scope of supply:

FMC ADC BOARDS - 250M, 4 CHANNELS, 16-BIT RESOLUTION,
250 MSPS SAMPLING RATE - 257 pieces
AMC RTM MODULE WITH 8 SFP CAGES - 45 pieces
AFC V3.1 (AMC FMC Carrier with Artix FPGA) WITH RTM AND
FRONT PANEL - 151 pieces
AFC V3.1 (AMC FMC Carrier with Artix FPGA) WITH RTM AND
FRONT PANEL with modification - 24 pieces

Work period / date of delivery:

ordered on 26-06-2017, delivered on 12-01-2018

Name and address of the company issuing the order:

European Organization for Nuclear Research CERN
CG-1211 Geneve 23
Switzerland

Brief description of the scope of supply:

White Rabbit Switch v 3.4 - 45 pieces

Work period / date of delivery:

ordered on 27-03-2018, delivered

Name and address of the company issuing the order:

GSI,
Planckstraße 1
64291 Darmstadt
Germany

Brief description of the scope of supply:

White Rabbit Switch v 3.4 - 10 pieces

Work period / date of delivery:

ordered on 29-05-2017, delivered on 21-12-2017

Name and address of the company issuing the order:

European Organization for Nuclear Research CERN
CG-1211 Geneve 23
Switzerland

Brief description of the scope of supply:

Simple PCIe FMC carrier (SPEC -ED-02189) - 435 pieces
which included:

Pre-series - 120 pieces

Pre-series with additional assembly - 15 pieces

Series with additional assembly - 300 pieces

Work period / date of delivery:

ordered on 27-10-2017, delivered

Creotech Instruments

www.creotech.pl

Procurement codes

02

Electrical engineering and magnets

03

Electronics and radio frequency

01

02

05

06

13

ENKI



Industry sectors:

Industrial engineering

About Enki:

ENKI Ltd. provides comprehensive engineering solutions to the industry. We specialize in advising on the design and finalization of process lines as well as manufacturing of the machinery and equipment, comprehensive production and handling lines. Within several years, we have built a team with extensive expertise and knowledge. With our experienced and committed staff, we are able to deliver versatile solutions for improved quality and productivity. We have completed and implemented several advanced solutions for food, tobacco, paper, chemical and related industries for many renowned brands. We offer a broad range of services for industry, such as installation, dismantling and relocation works, design and completion of equipment and machines. This encompasses, all types of steel structure, technical infrastructure, including electrical, control and piping systems, and support to the maintenance services. We complete dedicated projects, design and build special equipment and entire production lines and industrial handling systems. We are committed to be your partner in all phases of the industrial facility operation - the completion of your project and through management, innovative assembly concepts, modern planning and maintenance operations, we can keep your entrusted facility in an optimum condition. This is the aim of our company and provides a huge opportunity that combines all components of a broad range of products in the Industrial Technology sector.

Core competences:

ENKI offers variety of services and products. We specialize in execution of projects, building complete industrial facilities and process lines, construction of steel structures and pipelines. We offer mechanical, electrical and hydraulic assembly works, as well as the installation of entire industrial plants, single machines, equipment and components. Design of dedicated machinery, industrial handling and packaging lines. Developing technical documentation, rebuilding and

Enki

www.enkipolska.com

Procurement codes

01

Civil engineering, building and technical services

02

Electrical engineering and magnets

05

Mechanical Engineering and raw materials

06

Vacuum and low temperature

13

Services on the CERN site

Meet us at Poland@CERN 2019



Marcin Michalec
General Manager



Mateusz Sass- Gustkiewicz
Technical Director



Mateusz Lenart
Technical Project Department Manager



Anna Musiałek
Customer Service Coordinator



Company size

Medium

Contact us



Ogłędzyna 20, 31-589 Kraków



+ 48 12 445 52 09



biuro@enkipolska.com

conversion designs for industrial equipment. Complete drawings of new and reconstructed components. We design electrical and automation systems, create documentation and visualization. We offer implementation of industrial automation systems to ensure reliable monitoring and guarantee full safety and repeatability. In our workshops we manufacture equipment and machinery according to customer's specifications or based on our own design. We also offer machining, metalworking and tooling services. Our electronic engineers build control and supply, inverter and instrumentation cabinets. We perform periodic and emergency repairs of machinery and equipment, as well as refurbish and perform major overhauls of containers, process equipment and pumps. We also offer replacement of spare and rotating parts in machines. We offer individual maintenance support services or full partnership, we advise and support the planning and implementation of preventative activity projects, inspections and maintenance operations.

Experience in Big Science Projects:

- **Waste heat recovery - 10kW ORC**
Waste heat could be found in industry, units that could transform it into electricity are called heat to power units. One solution is an ORC unit which uses an organic fluid. Tested application converts heat from fumes with temperature from 280°C to 350°C that forced an additional cycle of thermal oil. It extracts heat and warms the ORC cycle. Third cycle is a cooling line to decrease temperature of working fluid. Nominal electric power of Generator is 10kW, each working medium require at least one circulation pump. Total electric power consumed by installation is about 4kW. Minimal heat power of chimney was estimated to 100kW, therefore total efficiency is 6%.
- **Saint-Gobain Gypsum blocks dryer modification**
The purpose of this project was to check if thermal modernisation of gypsum blocks furnace is economically viable. Scope of works included e.g. conducting a local vision, performing initial measurements with thermal imaging, preparation of preliminary research results. Also developing the concept of modernization of the technological line: optimization of air flow and temperature distribution through the dryer tunnel, air parameters at the inlet to the dryer tunnel and utilization of waste heat.
- **BAT Tobacco Pilot Plant**
Scope of this project was building new Tobacco Pilot Plant for testing new ways of new tobacco production. Including numerous of civil works - new laboratory rooms, drainages, service drops and installation of laboratory equipment.

Enki

www.enki.polska.com

Procurement codes

01	Civil engineering, building and technical services
02	Electrical engineering and magnets
03	Electronics and radio frequency
04	Information technology
05	Mechanical Engineering and raw materials



FRAKO-TERM Sp. z o.o.

Przedsiębiorstwo Badawczo - Wdrożeniowe

Industry sectors:

Superconductivity, Cryogenics, Vacuum technique,
Power electronics

About Frako-Term:

Since 2004 Frako-Term has specialized in the use of cryogenic and superconducting technologies in various areas of industry, including rationalizing the generation, storage and utilization of electricity and heat. We have been working on R&D projects involving the application of superconductors in magnetic separators, energy storage systems, fault current limiters and other energy devices. It makes Frako-Term the leading manufacturer of superconducting magnets in Poland.

Our activity is aimed at developing new products, processes and services or introducing significant improvements to existing ones. A broad network of contacts among top Polish and international research centres boosts our potential to offer innovative and unique solutions. We bridge the worlds of science and industry by enabling the transfer of scientific developments to industry as well as providing scientists with state-of-the-art devices and research equipment.

Core competences:

Based on our experience we can:

- supply cryogenic equipment, e.g. ultra-high vacuum chambers, thermal screens, cryostats (including large-size), cryocoolers, helium liquefiers and purifiers, temperature sensors, etc.;
- supply multilayer cryogenic insulation (MLI) - either in bulk quantities or as insulation blankets;
- design and manufacture engineered-to-order vacuum and cryogenic installations and parts,
- design and manufacture engineered-to-order superconducting magnets,
- supply vacuum pumps and fittings.

Experience in Big Science Projects:

Main supplier of UHV & HV equipment for NICA project at Joint Institute for Nuclear Research in Dubna, Russia:

- 100% of Booster beam chambers,
- 100% of stainless steel vacuum coats for Booster,
- thermal copper screens,
- cryogenic MLI insulation.

Frako-Term

www.frakoterm.com

Procurement codes

02 Electrical engineering and magnets

06 Vacuum and low temperature

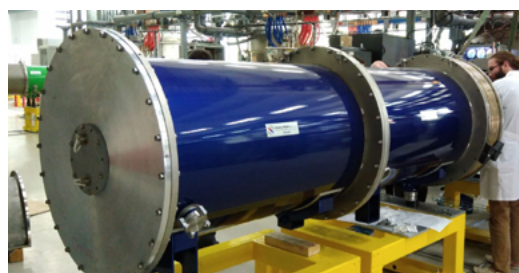
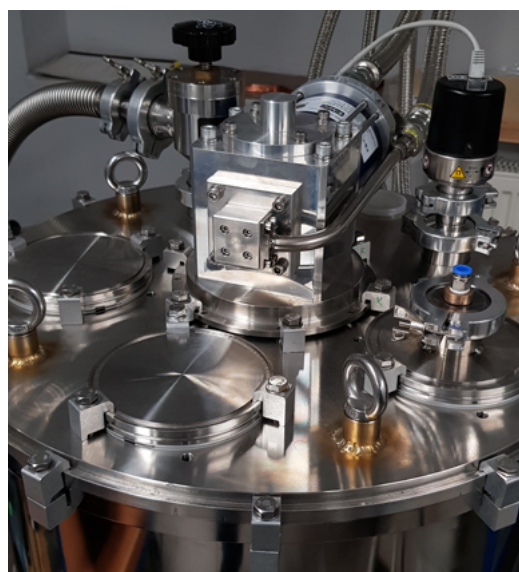
Meet us at Poland@CERN 2019



Zbigniew Lewandowski
Commercial Director



Jakub Soszynski
Deputy Director for Cryogenics



Company size

Medium

Contact us



Długa 1-3, 41-506 Chorzów



+48 887 710 208



biuro@frakoterm.pl

HYDROAUTOMATYKA

Industry sectors:

Aerospace, Power hydraulics, Automation, Railway, Control systems

About Hydroautomatyka:

Family company established over 15 years ago, since 2014 working as limited liability company. We design, assembly and start-up automation control systems based on PLC and touch panels together with delivery of low voltage switchgears (up to 1000A). We can provide all range of services needed like preparing documentation, prefabrication of control cabinet complying with given documentation, wiring the machine, applying or writing software, implementing PC or HMI based visualisation, logging data

Core competences:

- PLC based control systems
- Control cabinets
- Wiring
- PC based visualisation (SCADA)
- HMI based visualisation (touch panels)
- Control system and electric design & documentation

Experience in Big Science Projects:

- CERN Baby Demo (control cabinets & wiring)
- LUKASZ cooling system (control cabinets & wiring)
- MARTA cooling system (control cabinet, wiring, software and visualisation)
- CERN 18VDC power supply unit (providing complete units)
- PRATT&Whitney Seal Rig (control cabinets, wiring, software, visualisation, start-up)
- UTC Aerospace Poland test rigs (control cabinets, wiring, software, visualisation, start-up)
- UTAS Florida test rigs (control cabinets, wiring, software, visualisation, start-up)
- Wind turbine (maintenance while production, on-site service)
- Water dam control system (control cabinets, wiring, software, visualisation, start-up)
- Cargo railway marshalling yard (control cabinets, wiring, software, visualisation, start-up)
- Juice press (control cabinets, wiring, software, visualisation, start-up)

Hydroautomatyka


www.hydroautomatyka.pl


Procurement codes

02 Electrical engineering and magnets

06 Vacuum and low temperature

Meet us at Poland@CERN 2019

 Mariusz Garbuz
CEO

 Tomasz Olchawski
proxy


 Łukasz Klimczyk
automation engineer




Company size

Small

Contact us

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 biuro@hydroautomatyka.pl



Industry sectors:

Photonics

About InPhoTech:

InPhoTech is a leading Polish developer and supplier of innovative solutions based on photonics and optical fibers. Established almost a decade ago, the company is continuously growing and expanding its portfolio. An active R&D personnel makes up more than half of its 60 employees. InPhoTech develops technologies and supplies ready-solutions for various industries, such as energy, oil & gas, mining, space and aviation, medicine, telecom or security. The company's expertise and successful path were recognized in Poland and Europe with numerous awards and grants.

Core competences:

Thanks to its know-how and its proprietary technology InPhoTech designs, develops and manufactures complete photonics solutions, being able to uniquely deliver and control the whole value chain of its product, from the fiber fabrication, to the device manufacturing and the field tests. InPhoTech's innovative portfolio includes the following products:

- Distributed, quasi-distributed and punctual fiber optic sensors for measuring deformations, temperature, vibrations, pressure or presence of gases in hostile, remote and difficult access environments. Our sensors are used in heavy industry, energy or automotive, as well as in medicine or space.
- Specialty optical fibers:
 - Microstructured fibers: Multicore; single, few and multi-mode fibers; high-capacity telecom fibers.
 - Secure-transmission optical fibers.
 - Optical fibers & coatings for harsh environments: Radiation-hardened optical fiber; fiber coatings for extreme (high and low) temperatures; fibers for space, fibers resistant to harsh chemical conditions.
 - Fibers for high-power applications.
- Optical Devices & Components

And services:

- Post-processing of optical fibers: Our competitive advantage is that we have a unique technology that allows us to treat our own optical fibers, or those of our customers, after the manufacturing process, customizing the characteristics of them according to each application, e.g. to endure high/low temperatures, the presence of chemicals, etc.



InPhoTech

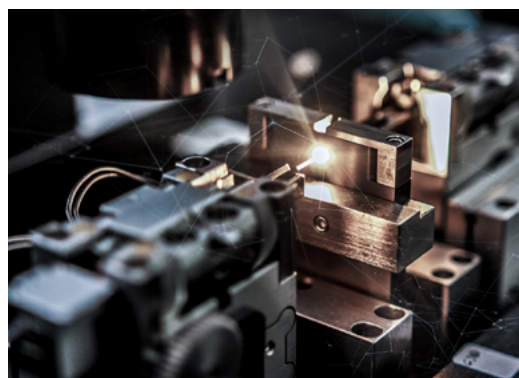
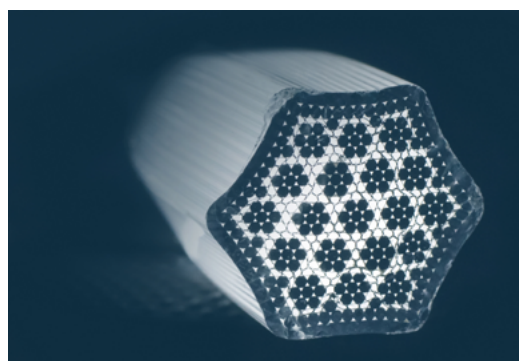
www.inphotech.eu

Procurement codes

- | | |
|----|--|
| 08 | Optics and photonics |
| 09 | Gases, chemicals, waste collection and radiation equipment |
| 10 | Health, safety and environment |
| 11 | Transport, handling, vehicles and access equipment |

Meet us at Poland@CERN 2019




-  Alejandro Dominguez-Lopez
Business & Technology Development Manager
-  Maciej J. Nowakowski
Business Development Manager



Company size

Medium

Contact us

-  Dzika 15/12, 00-172 Warsaw
-  +48 22 409 91 45
-  inphotech@inphotech.pl

Experience in Big Science Projects:

InPhoTech has a proven track in delivering innovative photonic solutions to the market. It has participated in numerous projects involving industrial and research institutes from various sectors, such as the heavy industry, mining or space. In its nearly a decade of existence, it has been involved in several projects and consortia, within national and transnational frameworks, such as the EC FP7 or the H2020. One of these examples is the ESA granted project for developing a system for continuous and distributed structural health monitoring of composite materials with embedded optical fibers.

Another highlight is the BEACON project, where InPhoTech developed a radiation resistant multicore fiber for optical amplifiers together with dedicated elements to integrate the multicore fiber with other systems on-board of telecommunication satellites.

InPhoTech

www.inphotech.eu

Procurement codes

08

Optics and photonics

09

Gases, chemicals, waste collection and radiation equipment

10

Health, safety and environment

11

Transport, handling, vehicles and access equipment



Industry sectors:

Cryogenic Engineering

About KrioSystem:

KRIOSYSTEM delivers complete liquefied gases distribution systems, covering transferring, storing, heat exchanging and phase separation.

Our work is divided into two application areas, based on the temperature level:

- liquid helium temperatures area (HELIUM CRYOGENICS), which covers systems operating in temperatures below -269 degC;
- liquid nitrogen temperatures area (INDUSTRIAL CRYOGENICS, LNG, CRYOBIOLOGY), which covers systems operating in temperatures between -70 and -200 degC. These are applications including liquefied oxygen, nitrogen, argon, carbon dioxide, methane (LNG) and other technical gases.

Core competences:

KRIOSYSTEM offers wide product range in this field, including:

- CRYOSTATS for testing and research purposes in liquid helium (including superfluid helium) environment;
- VALVE BOXES for helium distribution along with phase separation;
- Liquid helium MULTICHANNEL TRANSFER LINES;
- CRYOMODULES INTEGRATED WITH LOW-TEMPERATURE SUPERCONDUCTORS for transferring both liquid helium and electrical power in superconducting conditions;
- Vacuum Insulated Piping, Phase Separators, Cryovents, Flexible vacuum insulated piping, vessels/cryostats for cryopreservation, gas discharge system, control and measurement systems.

Experience in Big Science Projects:

KRIOSYSTEM delivers helium cryogenics devices to the largest and the most respected facilities for scientific research, which include: CERN in Geneva, DESY (XFEL project) in Hamburg, GSI (FAIR project) in Darmstadt, ESS in Lund and more.

KRIOSYSTEM won the award of the Ministry of Science and High Education, European XFEL and Deutsches Elektronen-Synchrotron as special recognition for the implementation of the XFEL project in Hamburg.

KrioSystem

www.kriosystem.pl

Procurement codes

06

Vacuum and low temperature

Meet us at Poland@CERN 2019



Piotr Grzegory
CEO



Grzegorz Orłowski
COO



Company size

Small

Contact us



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+48 71 349 00 20



biuro@kriosystem.com.pl



nanores

Industry sectors:

Nanotechnology, R&D, Microprototyping, Photonics

About Nanores:

Nanores is a hi-tech, independent research and development laboratory, set to provide the highest quality service and improve standards of cooperation between science and business.

Through the use of state of the art equipment and by creating a team of specialists in various fields (physics, mathematics, chemistry, materials science), we are able to efficiently identify needs and provide the best solutions for our partners.

We are specialised in analysis and modification of structure of conductive and non-conductive materials. Our laboratory is equipped with electron and ion Dual Beam microscopes (SEM/PFIB, SEM/FIB), and Atomic Forces Microscope (AFM) with multiple advanced 2d and 3d imaging modalities. We offer unique ability of surface and volume imaging and analysis in nanometric scale including the identification of the atomic composition. Beforementioned services allow to reveal manufacturing micro and nano defects along with verification of their causes, supporting production optimization processes. We provide services for the production and design of micro and nano prototypes of photonic, mechanical, electronic and other structures.

Core competences:

Our main services:

- Surface analysis (SEM)
- Cross section analysis (SEM/Xe-PFIB/Ga-FIB)
- EDS elemental composition analysis
- Preparation of samples for Transmission Electron Microscopy (TEM)
- Prototyping
- Surface analysis (AFM)
- 3D Reconstruction (SEM/Xe-PFIB/Ga-FIB)
- TEM analyses

Experience in Big Science Projects:

Work for CERN:

- Analysis of ITO layer on LYSO crystal (thickness, interface quality)
- Photonic crystal fabrication on 3mm x 3mm surface of the scintillating crystal with FIB

Nanores

www.nanores.pl

Procurement codes

03 Electronics and radio frequency

07 Particle and photon detectors

08 Optics and photonics

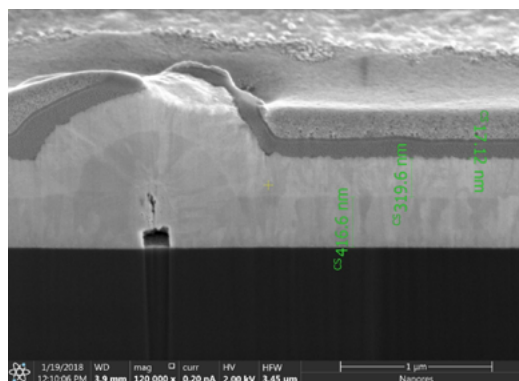
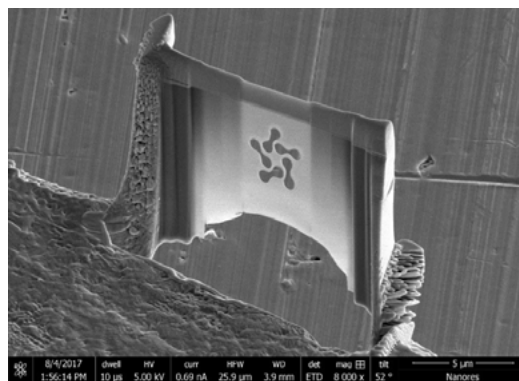
Meet us at Poland@CERN 2019



Paweł Modrzyński
Co-Founder



Jakub Gawczyński
Head of Business Development



Company size

Small

Contact us



Bierutowska 57-59, 51-317 Wrocław



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info@nanores.pl



Industry sectors:

NDT testing & accelerators technology; research profile combines nuclear power-related studies with various fields of sub-atomic physics (elementary particle physics, nuclear physics, hot plasma physics etc).

About NCBJ:

National Centre for Nuclear Research (NCBJ) came into existence on September 1, 2011 in effect of merging the former Institute of Atomic Energy POLATOM with the former Andrzej Sołtan Institute for Nuclear Studies. National Centre for Nuclear Research is the largest research Institute in Poland. We are also the only Polish research institution operating a nuclear reactor (the MARIA reactor).

The Centre is strongly involved in developing nuclear technologies and promoting practical applications of nuclear physics methods. Major market products manufactured in the Centre include radiopharmaceuticals and a range of particle accelerators for science, various industry sectors and medicine. The NCBJ Computer Centre is an IT and R&D background infrastructure indispensable to provide expert support for decision-makers in the project to develop in the coming years nuclear power industry in Poland.

We manufacture subassemblies for the largest particle accelerators in the world, as well as our own accelerators for industry, medicine and science. We develop new radiopharmaceuticals and manufacture them; in fact we are one of the leading radiopharmaceutical manufacturers in the world. We also manufacture dedicated machines for industry and medicine. We also manufacture subassemblies for space missions. We have been organizing Science and Technology Park in Świerk, in which our developments are going to be commercialized in cooperation with business partners.

Core competences:

Department of Nuclear Equipment HITEC (ZdAJ) is a facility of the National Centre for Nuclear Research (NCBJ) dealing with the construction, production, sales and maintenance services of equipment applied in the industrial (Linear accelerators LILLYPUT) and medical sectors (devices used in medicine based on the linear electron accelerators emitting photon and electron beams as well as devices operating in conjunction with them, such as therapeutic tables. We

National Centre for Nuclear Research (NCBJ)

www.ncbj.gov.pl

Procurement codes

01	Civil engineering, building and technical services
02	Electrical engineering and magnets
03	Electronics and radio frequency
05	Mechanical Engineering and raw materials
06	Vacuum and low temperature
07	Particle and photon detectors
10	Health, safety and environment
13	Services on the CERN site

Meet us at Poland@CERN 2019



Agnieszka Misiarz
Deputy Director,
R&D of NCBJ Nuclear Equipment Division (HITEC)



Company size

Government institution

Contact us

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also offer protective shielding doors adapted to each type of medical accelerator bunkers).

National Centre for Nuclear Research (NCBJ) Radioisotope Centre POLATOM is manufacturer and distributor of the isotopic goods applied in medicine, research and development, industry and environment protection.

NCBJ is involved in research profile combines nuclear power-related studies with various fields of sub-atomic physics (elementary particle physics, nuclear physics, hot plasma physics etc. Wide research areas: Accelerator physics; Astrophysics and astronomy of elementary particles; Cosmology.

Dosimetry in radiation protection; Electronics and detectors; Materials research; Neutrino physics; Nuclear physics; Physics of elementary particles; Physics of the cosmic radiation; Plasma physics and technology; Radiation medical physics.

Experience in Big Science Projects:

We co-operate with leading research Institutes on each continent (including CERN, the largest scientific lab on the Earth), and our Professors hold chairs in managing bodies of many international research organizations.

We participate in global enterprises and research projects (including the ITER thermonuclear future energy research programme and the EURITRACK anti-terrorist techniques research programme).

In the field of accelerator physics our Institute cooperates (among others) with DESY, INFN, CERN.

NCBJ neutrino team participates in neutrino research conducted by the following international collaborations: T2K (Tokai-to-Kamioka) experiment run in Japan to study oscillations of accelerator-produced neutrinos; ICARUS experiment run in Gran Sasso Lab in Italy on neutrino beams produced in CERN (novel liquid-argon-based neutrino detectors)

National Centre for Nuclear Research (NCBJ)

www.ncbj.gov.pl

Procurement codes

01	Civil engineering, building and technical services
02	Electrical engineering and magnets
03	Electronics and radio frequency
05	Mechanical Engineering and raw materials
06	Vacuum and low temperature
07	Particle and photon detectors
10	Health, safety and environment
13	Services on the CERN site

MICROSCOPEIT

Industry sectors:

ICT Industry

About MicroscopeIT:

MicroscopeIT is a privately-owned contract research organization that specializes in application of advanced Computer Vision/Machine Learning/Artificial Intelligence technologies in development of large-scale data processing and analysis solutions for variety of commercial and academic clients. We operate from Poland in a Software House delivery model offering custom-tailored R&D services.

In addition, MicroscopeIT has also developed its own VIRTUM Technology as the cloud-based platform for acquisition, annotation, management, processing and analysis of large volumes of multi-dimensional and multi-modal images. Though originally developed as a support tool for histopathologists (Med-Tech), VIRTUM found its applications in non-medical industries, such as: renewable energy, life science, bio-tech, space, mining, lumber, chemical and even cultural preservation.

Our team of 30 engineers consists of software developers and domain analysts bringing both the industry experience and the sophistication of scientific skills to industrial challenges brought upon by our clients. A number of our professional staff holds Ph.D. (many of them joint-) degrees in Computer Science, Mathematics, Physics or Biotechnology. Our team is deeply rooted in the Academia and enjoys vibrant connections with universities (ETH Zurich, Wroclaw University of Science and Technology, University of Zurich) and key technology hubs (OpTecBB, PORT Polish Center for Technology Development, Wroclaw Technology Park).

Core competences:

MicroscopeIT specializes in application of advanced Computer Vision, Machine Learning, and Artificial Intelligence technologies in development of large-scale data processing and analysis solutions. We operate in a Software House delivery model offering on-demand technical consulting, software design, data science, project management and engineering implementation services including algorithmics and cloud-deployment.

MicroscopeIT

www.microscopeit.com

Procurement codes

04

Information technology

Meet us at Poland@CERN 2019



Mirek Korzeniowski, PhD
Chief Data Scientist



Edyta Petters, PhD
Head of Business Development



Company size

Small

Contact us



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MicroscopeIT-prototyped solutions integrate such multiple AI technologies as computer vision, image, text and voice recognition along with GPU's massive parallelization, distributed computing, and in-memory processing for real-time analytics into early commercial applications in robotics, medical imaging and diagnostics, biotechnology, renewable energy and agriculture. We excel in building AI-supported tools for biometric authentication (facial recognition, liveness detection), geo- and crop monitoring (aerial and spatial), fleet management (location-based analytics) and automotive (vision modules), security and surveillance.

Experience in Big Science Projects:

We have a proven record of reaching for meaningful outcomes in EU-supported grants. We earned our team-player badges under 7FP, H2020, and ESA funding frameworks. :

- FP7 (FP7-2013-NMP-ICT-FOF) - Factories of the Future Resources, Technology, Infrastructure and Services for Simulation and Modelling (FORTISSIMO), project ID: 609029, www.fortissimo-project.eu
- H2020 (ICT-12-2018-2020) - EXtreme-scale Analytics via Multimodal Ontology Discovery & Enhancement (ExaMode), project ID: 825292, www.examode.eu
- ESA (Task Force ESA-PL) - Founding Project PANOPTES

MicroscopeIT

www.microscopeit.com

Procurement codes

04

Information technology



Industry sectors:

High-Tech - Nanotechnology

About Prevac:

PREVAC is a world leader in the design and production of scientific research equipment which operates in the ultra-high vacuum environment and enables research into the study and development of new materials and correspondingly new technologies under very well controlled conditions. The scope of design, manufacture and sales activities includes electronics, precision mechanical assemblies and motion devices, software and advanced process control and measurement. PREVAC is very well known for its flexibility in developing innovative solutions as individual as each customer's research activity.

PREVAC supplied equipment is almost always tailor-made, which gives it the character of innovation. Scientific ideas and hypotheses are unique and driven by a fundamental search for new knowledge combined with the needs of industry and business and the realisation of these needs requires unique technological solutions. These solutions often begin as a result of brainstorming by the company's specialists and principals, many of whom are recognized scientific leaders. When the world today learns about the invention, it means that several years ago, PREVAC scientists and engineers were thinking about how to invent it, which apparatus to build, how to enable it.

The PREVAC approach to the client is very flexible, highly creative and unique to individual customer requirements. „Excessive” engineering is often referred to. The company builds equipment that competitors are often unable to offer. PREVAC is a specialist for special tasks. Hardware applications are virtually innumerable. Each apparatus is dedicated to a new research idea. Thanks to the experiments carried out on PREVAC equipment, new, better materials used in practically every field of everyday life are being created.

Prevac

www.prevac.eu

Procurement codes

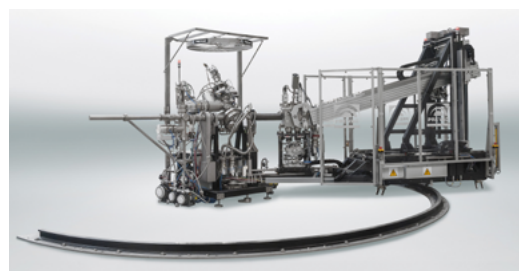
06

Vacuum and low temperature

Meet us at Poland@CERN 2019



Szymon Skrzypiec
OEM Sales Coordinator



Company size

Medium

Contact us



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prevac@prevac.pl

Core competences:

- Complete vacuum systems - enabling modifications and tests of new and existing materials over a wide pressure range (in the range of 10^{-12} [mbar] to 30 [bar]), temperature (from near absolute zero to above +2000 ° C) and in the environment of various gases and gas mixtures.
- Unique vacuum manipulators - enabling positioning, rotation, heating and cooling of test samples in various degrees of freedom and with sub-micrometer precision.
- Vacuum chambers - in which a vacuum level of 10^{-12} mbar is maintained, similar to that which prevails in space.
- Vacuum instruments – including sophisticated electron spectrometers, ion emission sources, electrons= sources, X-ray and ultraviolet light radiation sources, molecular beam epitaxy evaporators and thermal evaporators.
- Sample carriers - on which a test sample is placed, and then inserted into the vacuum apparatus. The material is subjected to experiments under different pressure, temperature, gas composition, irradiation, etc. In this segment, PREVAC is the world leader, having solutions for almost all possible applications which enable the researcher to create and study very complex and multifunctional devices to create a „new world“.
- Modern electronics - based on our own concepts, based on the latest components, equipped with TFT LCD, OLED touch panels, controlling processes and measurements taking place in the research apparatus.

Experience in Big Science Projects:

GSI-part of FAIR project- we provide measuring electronics- The MG15 is able to support four active gauges and up to three passive gauges, extending the measurement range to 2×10^{-12} mbar. The unit is fully software controlled. The unit can be remotely controlled via one of available interfaces.

Prevac

www.prevac.eu

Procurement codes

06

Vacuum and low temperature



Industry sectors:

Big science, Space, Oil&gas, Automotive, Heavy industry, Textile, Food processing

About Scanway:

Scanway is an SME based in south-west Poland, in Wrocław, inside a Wrocław Technology Park. Company was founded more than 3 years ago by the alumni of Wrocław University of Technology. At first the goal was to develop and integrate laser and galvanometric systems. During the following months and years company business lines changed to development of vision systems for science and industry, services for big science and multispectral scanners for various industries.

As for now company is one of only several entities in Poland that has strong competences in optics – designing, testing, sensors, detectors, optoelectronics etc. Thanks to two successful investments from Polish VCs company future is safe. Scanway is right now developing systems to various clients from different industries: automotive, R&D, oil&gas, heavy industry etc. One of our project is aiming to develop first Polish optical payload for nanosatellite. We are also constantly monitoring big science procurements (ESO, ESA, ESS, CERN, ITER).

Company right now employs more than 20 engineer and scientists with various background: from university through different industries up to big science. Scanway has its own workshop which is serving as a place for integrating and testing different subsystems: mechanics, optics and electronics.

Core competences:

Scanway core competences lay in developing, testing and integrating various optical, vision and multispectral systems, always fit to the customer needs. Because of company background we are able to put together a system which will meet requirements in the defined timeframe and budget. Scanway strongly works with various optical detectors and sensors (in various wavelengths; including spectrometers), not only COTS but also more sophisticated solutions. Due to the available software we are able to design and procure optics, mechanics and electronics.

Our applications until now are for example: quality control for textile market, multispectral+3D scanner for bacteria scanning, different space industry projects, chemical industry quality systems, 3D scanner for big-sized elements, multispectral scanners for food processing, code scanners for automotive etc.

Scanway

www.scanway.pl

Procurement codes

07 Particle and photon detectors

08 Optics and photonics

Meet us at Poland@CERN 2019



Mikołaj Podgórski
COO (Member of the Board)



Company size

Small

Contact us



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office@scanway.pl

Experience in Big Science Projects:

Scanway right now is developing first Polish Earth observation payload for nanosatellite, funded by governmental money and private investments. Nanosatellite will be used for EO not only in visible spectrum, but also in NIR and SWIR.

Until now Scanway also successfully developed, tested and integrated optical system for suborbital space experiment which aimed to monitor drilling process in space conditions. As for now Scanway is waiting for the results of several procurements from H2020 and various European Space Agency tenders. We are constantly monitoring big science procurement sites and e.g. waiting for 3 procurement processes from ESO to start.

Scanway

www.scanway.pl

Procurement codes

07

Particle and photon detectors

08

Optics and photonics

02

03

04

05



SpaceForest

innovative solutions

Industry sectors:

Electronics, Mechanics, New technologies,
Services, Space sector

About SpaceForest:

SpaceForest develops and commercializes new technologies related to microwave techniques, artificial intelligence, electronic and rocket technologies. The company's most valuable asset is highly educated, experienced and ambitious team. SpaceForest is a space company providing various services to facilitate the commercial and scientific access to space. Its Experimental Rocket Department is currently focused on carrying out the Suborbital Inexpensive Rocket (SIR) project. The aim of this project is to develop a fully reusable suborbital rocket capable of carrying 50kg of payload to an altitude up to 150. SIR is designed to provide high performance and reliability at low cost for the suborbital space users.

We provide a wide range of services in the scope of design and prototyping of microwave equipment, precision mechanics and electronics, as well as telecommunication equipment repairs and launching experiments on board of internally developed experimental rockets.

Cooperation with European Space Agency lead to the development of the low-noise, high frequency generators, and provision of internally developed testing environment for the on-board data collecting system of the ESA's JUICE mission. ISO 9001 & 14001

Core competences:

- Comprehensive design and prototyping of microwave and radio equipment up to 16 GHz for use in space, taking into account ECSS standards,
- Testing and optimization of radio equipment using environmental chamber and high-frequency measuring equipment,
- Design and prototyping of very high power RF components, such as directional and hybrid couplers,
- Design of integrated analog circuits and high-speed digital circuits.
- Filter Tuning Software (FTS) – unique software for computer-aided filter tuning, basing on AI algorithms. It allows to speed up the filter tuning process significantly and presents an unprecedented tuning repeatability. FTS can be applied in the following areas: DVB, telecommunication, space technologies.
- Machining services (CNC) in various types of materials such as steel, aluminum, copper or composite materials. We specialize in designing and manufacturing precision electronic enclosures for the space industry

SpaceForest

www.spaceforest.pl

Procurement codes

02 Electrical engineering and magnets

03 Electronics and radio frequency

04 Information technology

05 Mechanical Engineering and raw materials

Meet us at Poland@CERN 2019



Marcin Sarnowski
Sales and Marketing Director



Company size

Small

Contact us



al. Zwyciestwa 96/98, 81-451 Gdynia



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spaceforest@spaceforest.pl

Experience in Big Science Projects:

High power directional coupler – project for Warsaw University of Technology (WUT). Development and manufacturing of high power (up to 500 W), tunable directional couplers. The couplers are used in a particle accelerator of ESS in Lund, Sweden.

Development and qualification of frequency generators – project with ESA and RUAG Space AB. The main objective was to design and test key functions of frequency generators for space applications in different frequency bands. The generators were designed to meet stringent phase noise requirements. The target was TRL 7.

Dependable Electronics for Wireless Infrastructure project, under the Artemis EC programme. Partners: Thales Alenia Space España and TU of Gdansk, Poland. The main objective was to provide solutions for replacing communication wires between various sensors and attenuators with wireless links in aeronautics vehicles. Verified in two rocket flights.

Dual redundant medium power master signal source - project with ESA and RUAG Space AB. The main objective is to design, test and qualify the medium power dual redundant master signal source to supply the reference signal of many frequency converters for satellite transmission applications. Highly Integrated Solid State Power Amplifier Operating in X Band - project with ESA and TESAT-Spacecom. The main objective is to design a highly integrated Solid State Power Amplifier operating in the typical frequency range used for downlink transmitters in earth observation missions.

SpaceForest

www.spaceforest.pl

Procurement codes

02

Electrical engineering and magnets

03

Electronics and radio frequency

04

Information technology

05

Mechanical Engineering and raw materials



Industry sectors:

Control Systems, IT

About S2Innovation:

S2Innovation provides IT and control systems solutions for science and industry.

We help scientific projects in bringing results quicker. S2Innovation is specialized in design and implementation of software for data acquisition and control systems and its components at research centres and industry. We use TANGO Controls (<http://www.tango-controls.org/>), EPICS (<https://epics-controls.org/>), LabVIEW (<http://www.ni.com/pl-pl/shop/labview.html>) and other tools in order to fulfil the needs of our partners. We cooperate with scientific equipment producers creating and integrating the necessary control software.

We are happy to provide valuable services especially related to development of technologies. We believe that there is a lot of scientific technologies which can be applied outside of the science. There are also technologies which can be brought to the scientific world.

We believe that knowledge and technology exchange shall bring profit to the whole community.

Core competences:

- Software development and integration
- Control systems design and implementation
- Software documentation
- PLC systems design and implementation

Experience in Big Science Projects:

Since its beginning S2Innovation provides services for Big Science Institutions such as:

- European Synchrotron Radiation Facility (ESRF) in France
- MAX IV Laboratory in Sweden
- Synchrotron SOLARIS in Poland.

We are working on development and maintenance of the TANGO Controls and provide custom build software solutions for individual needs of our clients such as Integrated Critical Alarms Monitoring System at Synchrotron SOLARIS.

S2Innovation

www.s2innovation.com

Procurement codes

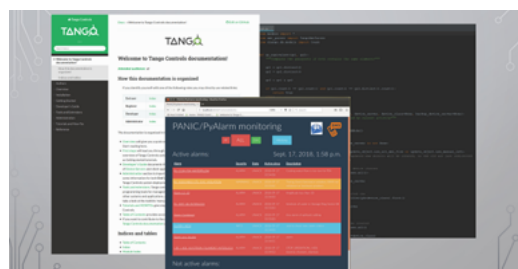
04

Information technology

Meet us at Poland@CERN 2019



Piotr Goryl
CTO



Company size

Small

Contact us



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contact@s2innovation.com

SOFTCOM

Industry sectors:

EMS, PCB, PCBA.
Contract assembly of electronic modules, PCB and components supply

About Softcom:

SOFTCOM Sp. z o.o. [Ltd.] has been operating in the electronic industry since 1999r.

We carry out orders for over 400 recurring customers world-wide (among others: Poland, Germany, the Netherlands, USA, Mexico, Israel, Switzerland, France).

We have been a reliable and trustworthy partner to business from various sectors: defense, medical, telecommunication, transport, consumer electronics, automotive, IoT, security and aerospace. We also cooperate with scientific centers and universities.

Core competences:

- EMS contracted assembly
 - Full manufacturing range: from design, into delivery of PCB and electronic components, to SMT/ THT assembly and auxiliary operations: testing, underfill, varnishing, washing, soldering the cables, assembly into the housing etc.
- Advanced printed circuit boards PCB
 - 1-2L, multilayer, FR4, HiTg180, flex, flex-rigid, ROGERS, PANASONIC, ARLON, ISOLA, aluminium core, blind&buried vias, impedance control, panels for assembly line, ECO/ MIX PROTOTYPE option without tooling costs
- Electronic components
 - Purchase compliant with BOM
 - Storage
 - proposal of replacements
- Support and consulting
 - Design
 - Project optimization
 - Costs optimization

Experience in Big Science Projects:

CERN, Université de Genève

Softcom





www.softcom.pl

Procurement codes

02 Electrical engineering and magnets

03 Electronics and radio frequency

Meet us at Poland@CERN 2019




-  Dariusz Barszcz
Vice President
-  Jaroslaw Wisniewski
Chief Technologist, Vice President
-  Marzena Laren
Director of Sales and Marketing
-  Natalia Rzyska
Customer Advisor



Company size

Small

Contact us

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-  info@softcom.pl

sparkflow

Industry sectors:

IT

About Sparkflow:

We are experts in providing custom software development services tailored to meet your needs and requirements. We work in LabVIEW, LabVIEW Real-Time, LabVIEW FPGA, Veristand, TestStand and DIAdem development environments. We provide you with a wide range of services – from simple data acquisition to complex testing solutions expanding control and measurements systems.

We provide you with our consulting services on every step of the project. If you need help before you have even started working on a project, we can create or study its requirements. If you have already started the development process – we can improve and optimize it, perform code review and code refactoring basing on our experience and sharing the best practices.

Core competences:

- LabVIEW software development (including FPGA and al-Time)
- Custom LabVIEW training programs
- Consulting services

Sparkflow

www.sparkflow.pl

Procurement codes

04

Information technology

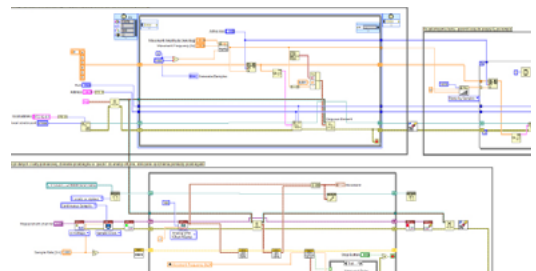
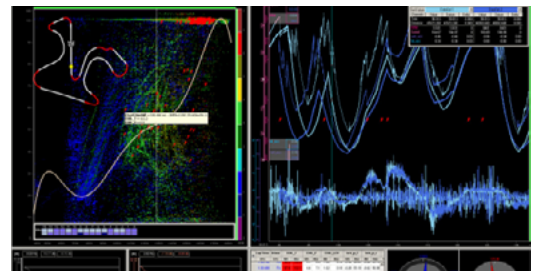
13

Services on the CERN site

Meet us at Poland@CERN 2019



Paweł Reszel
VP, Head of Business Development



Company size

Small

Contact us



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TECHTRA

TECHNOLOGY TRANSFER AGENCY

Industry sectors:

Particle detectors, Electronics

About Techtra:

TTA Techtra is the first company that acquired license for commercial production of GEM foils. As the only European producer Techtra has delivered over 1500 foils for High Energy Physics laboratories.

On the basis of gathered experience we have designed and built whole GEM-based detector system. The system may be used for in many scientific and industrial applications. Techtra specializes in prototyping and small series production of advanced electronic systems for scientific applications. Designs include: electronic project, PCB design (up to 10 layers), production and validations.

Core competences:

- GEM foils production
- GEM detectors production
- Electronic systems design, prototyping and production

Experience in Big Science Projects:

Techtra did the first technology transfer from CERN into Polish industry.

GEM foils and foils is based on CERN technology.

Techtra

www.techtra.pl

Procurement codes

03 Electronics and radio frequency

07 Particle and photon detectors

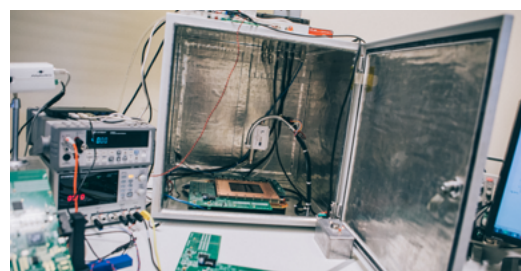
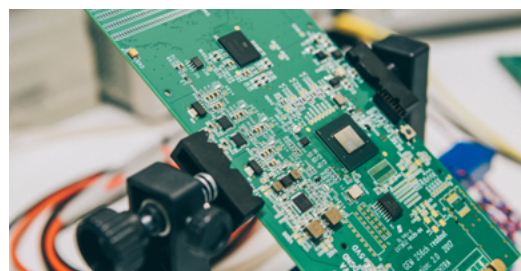
Meet us at Poland@CERN 2019



Piotr Bielówka
President of the Board



Michał Babij
Main engineer



Company size

Small

Contact us



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techtra@techtra.pl



About WPT:

Wroclaw Technology Park (WTP) is a place where science, business and innovations meet. It is a combination of modern infrastructure, cutting-edge research facilities and expert knowledge which provides conditions for the development of entrepreneurs operating in every scale. It is a place for startups and booming SMEs.

Over 200 companies related to broadly-understood new technologies are currently operating in the Park. They may take advantage of 12 laboratories and prototype workshops equipped with world-class devices, modern office space, attractive investment plots, production and storage halls.

WTP is also a broadly-developed networking place and extensive know-how. It is a venue in which theory and practice, business and science, innovations and market expectations merge. Such a versatile profile has fostered conditions that allow making full use of scientific and industrial potential of Lower Silesia, and promoting innovative business in the region.

Big Science in WPT

WTP brings together science and technology entities and creates a nurturing environment for local and global projects, alongside facilitating smooth cooperation between Polish businesses and Big Science centres.

Wrocław Technology Park is the architect and the coordinator of the BIG SCIENCE HUB, a platform for sharing ideas, contacts and experiences, geared to promoting and growing the innovation sector, and making it more accessible to companies from a wide range of profiles and industries.

Collaboration with CERN and ITER

WTP acts as the go-between for entrepreneurs and R&D institutions. Sylwia Wójtowicz, WTP's Commercialisation and Development Director, holds the position of Industry Liaison Officer CERN.

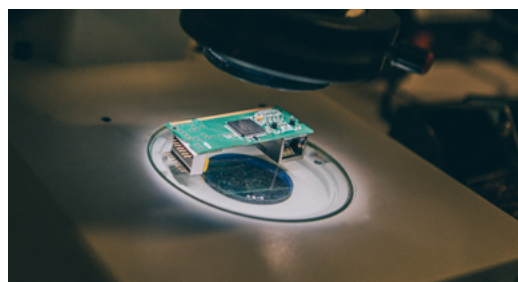
WTP is also home to companies engaged in a successful cooperation with Big Science institutions, among others Technology Transfer Agency Techtra, Kriosystem Sp. z o.o., Saule Sp. z o.o., Scanway Sp. z o.o.

These and other innovative companies are offered support in handling organizational matters and in funding acquisition. They may use the Park's technical infrastructure, including 12 laboratories and prototype workshops.

WTP is involved in initiatives which promote space-related innovations designed to change entrepreneurs' perception of this sector. WTP seeks to demonstrate that the largest global scale projects involve micro and small companies as well.

Wroclaw Technology Park

www.technologypark.pl





The National Centre
for Research and Development

The National Centre
for Research and
Development (NCBR)

www.ncbr.gov.pl/en

About NCBR:

Three years ago (2016) Poland has introduced the new innovation-oriented policy and a massive public funding - mostly from EU funds - towards R&D sector. The government uses all means necessary, including startup-friendly law and fiscal policy, to support innovation and growth of tech companies. It creates great opportunities for R&D projects and startups.

The majority of funding is available through the National Centre for Research and Development, the executive agency of the Minister of Science and Higher Education. It is the largest R&D funding agency in CEE in terms of diversity of activities, financial resources, territorial and institutional outreach. NCBR helps R&D teams and tech companies to grow.

As the govt-based agency NCBR performs tasks of the Intermediate Body (under the Ministry of Investment and Economic Development) of EU operational programmes. One of them, the Operational Programme Smart Growth is EU's largest national instrument which finances R&D and innovation. More than PLN 36 bn has been allocated for its implementation in 2014-20. More than a half of this amount, nearly PLN 22 bn, is at the disposal of the NCBR. By co-financing innovative projects of entrepreneurs and/or scientists NCBR reduces risks of carrying R&D projects.

NCBR provides funding via grants scheme (it's direct funding with non-returnable subsidies; for instance "Fast Track" programme) or via seed funds (indirect funding with non-returnable subsidies). The latter scheme is run under the BRIDGE Alfa programme. It combines public funding (80% of the project value) with business experience of private funds partners and private investors. The investment vehicles - so called Alfas - are designed to enable market entry for innovative projects: carry them through the proof-of-principle and proof-of-concept phases by providing them with funding, business and legal assistance. NCBR has allocated ca. 0,5 bn euros for this purpose. One entity (startup-to-be, startup) may receive up to 200 000 euros.

The „Fast Track” programme, NCBR's flagship for entrepreneurs (grants scheme) is open to companies registered and operating in Poland. They can apply for funding - from ca. 250 000 to 50 000 000 euros with at least 20% of own contribution - for projects involving industrial R&D or R&D of technological solutions and products that serve the development of business and strengthening the company's competitive position.

The programme is open for a wide range of topics.

For more information visit ncbr.gov.pl. You are more than welcome to send your inquiries to info@ncbr.gov.pl

NCBR supported



10 200
projects



2 408
enterprises



3 185
scientific institutions



50 000
millions of zł

Future must be designed.

Let's do it together.

BIG SCIENCE HUB

BIG SCIENCE HUB is a platform integrating business and science, big science in particular. It is a place for **entrepreneurs** to find opportunities to make new contacts which may lead to new jobs or contracts, and where **Big Science institutions** may find reliable partners. It is also an opportunity for innovative companies to present their offers to potential partners (not only Big Science centres), investors or principals.

For **universities** and **scientific institutions**, it is an occasion to present their potential to companies and to establish partnerships that may lead to the commercialisation of solution developed by their researchers.

BIG SCIENCE HUB is, above all, a chance for business and science to meet and to start cooperation to the benefit of both.



The initiator and coordinator of BIG SCIENCE HUB is Wroclaw Technology Park, which has been strongly connected to the Big Science market since its inception. WTP experts help Polish companies unleash their potential and discover new business opportunities.

POLAND@ CERN 2019

Organizers:



Honorary patronage:

