

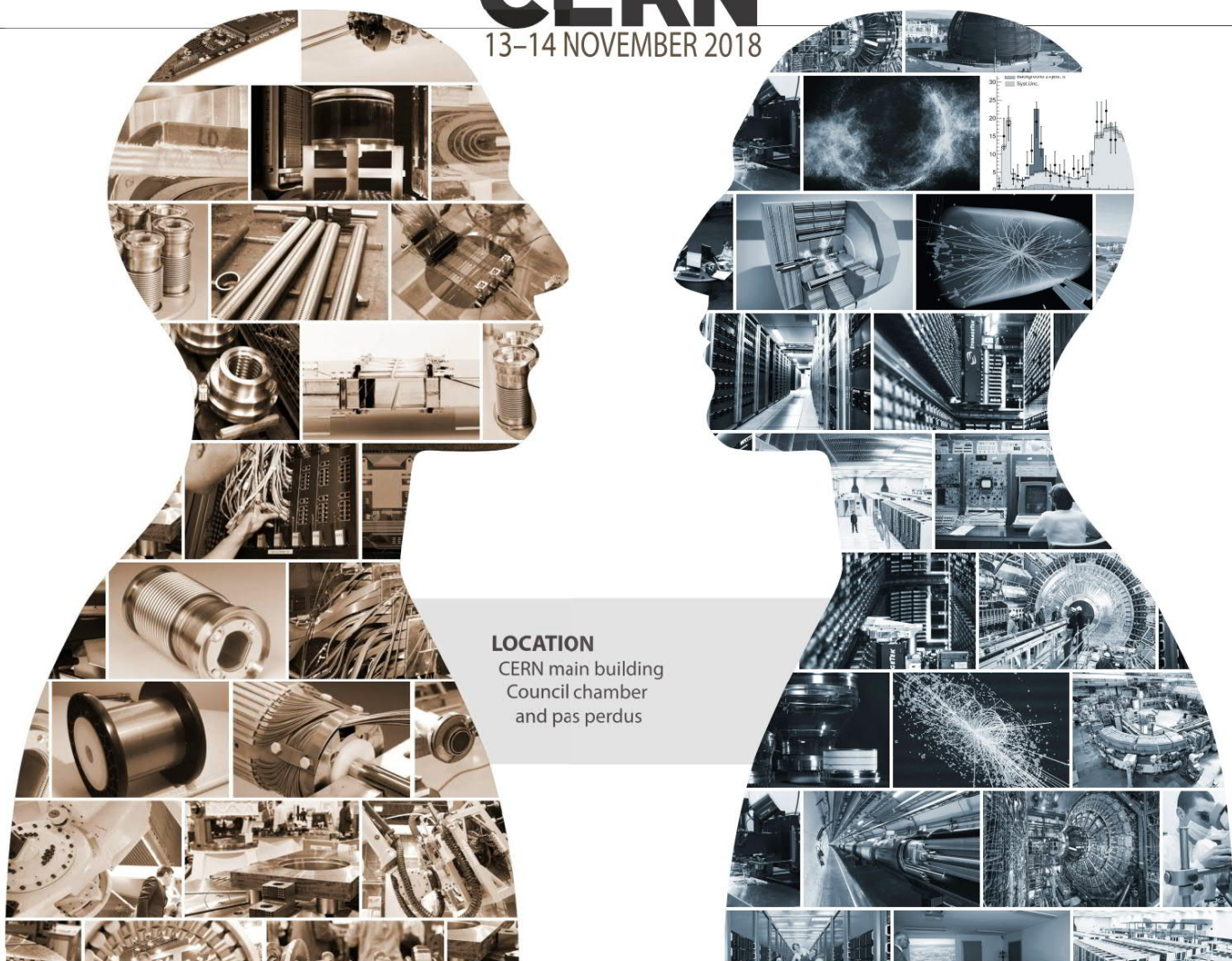
SPAIN

AT

Second industrial meeting

CERN

13-14 NOVEMBER 2018



LOCATION
CERN main building
Council chamber
and pas perdus



@CDTIoficial



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Added Value Solutions

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<http://www.a-v-s.es/>

Short description:

Engineering SME. Supplier of turn-key instrumentation from design to installation. High precision mechanics, UHV, magnetism, radiation and radioprotection, opto-mechanics.

Interests in CERN:

- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature
- 7 - Particle and photon detectors
- 8 - Optics and photonics

Aernnova

Contact info:

inigo.castrillo@aernnova.com

<http://www.aernnova.com/en/>

Short description:

Specialists in structures and systems integration.

Aernnova Engineering provides high added value Product and Manufacturing Engineering services to the leading aircraft manufacturers and first tier suppliers (Tier 1). Our know-how covers: the conceptual and preliminary definition of the structures and their associated systems, the definition of detail, testing, prototype manufacturing, certification and product support. All this with a flexible scope of activities throughout the entire life cycle of the product. The concurrence between design and manufacturing engineering makes it possible to offer the most efficient technical solutions.

Product Engineering: Conceptual and preliminary design and calculation; Design and detail calculation; Testing and certification and support services.

Process Engineering or Manufacturing: Assembly and handling systems; Machinery for the manufacture of components in composite material and conventional tooling.

Interests in CERN:

- 1 - Civil engineering, building and technical services,
- 5 - Mechanical Engineering and raw materials

Alibava Systems

Contact info:

juan.herranz@alibavasystems.com

<https://www.alibavasystems.com/>

Short description:

Alibava Systems provides technological products and services to the High Energy and Nuclear Physics research community from readout and characterization electronics, to radiation detector development and fabrication, custom engineering services and full mechanical and electronic system integration.

Interests in CERN:

3 - Electronics and radio frequency

7 - Particle and photon detectors

ANTEC Magnets, S.L.

Contact info:

r.iturbe@antecsa.com

<http://www.antecsa.com/>

Short description:

Since 1992, ANTEC Magnets, S.L.U. designs and manufactures high-end technology special magnetic systems and components.

- Electromagnets (normal and superconducting) and permanent magnets configurations
- High magnetic permeability steel cores
- Special coils
- Special Magnetic solutions: Turnkey Magnetic Fields and/or configurations

Interests in CERN:

Supply of 34 superconducting (SC) corrector dipole magnets for the LHC and HL-LHC project (02250303)

2 - Electrical engineering and magnets

4 - Information technology

5 - Mechanical Engineering and raw materials

6 - Vacuum and low temperature

Applus Laboratories

Contact info:

alfons.carpio@applus.com

<http://www.applus.com/en/>

Short description:

Applus+ Laboratories (LGA Technological Center S.A.) specialises in developing technical solutions to enhance product competitiveness and foster innovation. Our testing expertise and our network of leading, renowned laboratories makes us best placed to support you through the whole product value chain, offering testing, product-development, quality-control and certification services.

SERVICES

- Structural Testing
- Materials Testing
- Material Database systems for simulation
- Fire Testing
- EMC, Wireless and Electrical Testing
- Environmental Testing
- Cybersecurity Evaluations

ENGINEERING & DEVELOPMENT

- Composite Manufacturing Solutions
- Automated NDT Equipment
- Test Benches & Test Systems

PRODUCT CERTIFICATION

- CE Marking
- Global Market Access

CALIBRATION

- Industrial Calibration
- Legal Metrology
- Calibration Outsourcing

Interests in CERN:

- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency
- 4 - Information technology
- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature
- 13 - Services on the CERN site

Arceclima

Contact info:

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mlozano@arceclima.com

<https://arceclima.es/>

Short description:

Arceclima is a fire protection and HVAC installer.

Interests in CERN:

1 - Civil engineering, building and technical services

Asturfeito

Contact info:

azarza@asturfeito.com

<https://www.asturfeito.com/>

Short description:

Fabrication of large/complex precision parts and assemblies for energy, defense & aerospace, nuclear and Big Science markets. We cover all the value chain from design (through engineering partners), manufacturing engineering, welding and machining to full assembly, systems integration and testing. We have 3 workshops with a wide range of equipment including robotized welding and 32 CNC machining centres. In our large assembly hall (up to 25 m height under hook) we perform mechanical, hydraulic and E&I assemblies and testing.

Interest in precision steel structures, vacuum equipment, radiation shielding equipment, etc...

Interests in CERN:

5 - Mechanical Engineering and raw materials

6 - Vacuum and low temperature

AWGE Technologies

Contact info:

cruiz@awge.es

<http://awgetechnologies.com/>

Short description:

AWGE Technologies is a multi-technology group based on innovation, research and technology development focused on highly innovative and competitive products having our clients at the very centre of our performance.

AWGE's activity is focused and related with different and at the same time extremely related disciplines like cryogenic, radio frequency and microwave (RF&MW), ultra high vacuum (UHV), highly precise mechanic, etc. in different sectors as science, telecom, industry, defence, space or health.

Because of the characteristics of our activities, competence and equipment we are a highly technological company that provide solutions to the most advanced scientific structures, based on our competitiveness, the application of our innovative knowledge and the determination of our team. Some of our clients are CERN, ILL, ESS Lund, ALBA, IAC, Indra, CAF

Interests in CERN:

- 3 - Electronics and radio frequency,
- 5 - Mechanical Engineering and raw materials,
- 6 - Vacuum and low temperature

Carbures

Contact info:

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agustin.mendez@carbures.com

<http://carbures.com/>

Short description:

Robotics, electronic and electric projects (racks, PCB, systems, laboratory benches). Product development of electronic, electrical and software components. This unit is focused in 3 business lines:

- Test systems: Ranging from small tools, boxes or installations simulating simple or concrete functionalities, to laboratory benches capable of testing multifunctional systems or complex equipment.
- Platform-based embedded equipment, subject to different levels of criticality imposed by applicable civil (DO160, DO178, DO254) and military (DEF-STAN) regulations
- Maintenance of both test means and embedded equipment
- Wiring (custom wires)

Interests in CERN:

2 - Electrical engineering and magnets,

3 - Electronics and radio frequency,

4 - Information technology

Contact info:

rlopez@cic.es

esm@cic.es

<https://www.cic.es/>

Short description:

IDbox -> <https://idboxrt.com/en/> IDbox is a set of software components that allows supervision of industrial processes. It integrates all available information sources, processes that capture signals and offers the tools for analysis to assist in operational decision making.

All the collected data is processed according to the defined business rules generating new values and new forms of display, providing increased and continuous business value. The goal is to have centralized information on a single platform available from mobile devices. Each user will have access to specific and personalized information which will help in better decision making and increase the company's productivity.

FIELDSEAS -> www.fieldeas.com Mobile Solution, you can have all control, visibility of your business. You can control field services, inspection and supervision rounds, material, work planning.

LUCA BDS -> <https://www.cic.es/luca-bds/> Intelligence business tool, which provides fast and easy business data collected from different company's administrative systems, to analyze and interpret this information and convert it into knowledge.

CYBERSECURITY -> At CIC we have developed a comprehensive security strategy, called For3, to protect your company's data. This strategy will establish mechanisms that will prevent and react to data security breaches. Furthermore, we want to foment IT security through awareness, sensitization and education.

- Network Protection. For3 strengthens the data communications networks with services, products and solutions for network protection at all levels. For that purpose, we have deployed UTM and WAF systems, network access controls, secure systems accesses, SIEM systems, W6 viewScada, etc...
- EndPoint Device Protection. It is very important for companies to set up better protection than standard Malware systems afford. We offer solutions for your PCs, servers and mobile devices. We also offer system Patching/Upgrade and Fortification to only use necessary applications and disk encryption.
- Educating and Creating Awareness in Users. For3 proposes educating and making users aware of cybersecurity issues through training courses, spear phishing drills and other type of cyber "exercises" to determine users awareness to the risk of a cyber attack.
- Security Government. To develop a Cybersecurity Government, CIC offers consulting services to establish norms and security standards. We also perform audits, analyze vulnerabilities and pentesting.

Interests in CERN:

4 - Information technology

Coraci

Contact info:

coraci@coraci.es

www.coraci.es

Short description:

CORACI is a Spanish Company founded on 1979. We are specialists on expansion Joints design & manufacturing.

We are capable to produce pieces from DN 6 to 6000 mm, Pressure Ranges from Full Vacuum to PN 160 barg. As a complement, we calculate Pipe Stress acc. ASME or EN codes with Bentley Autopipe Software.

We work for all industry sectors:

- Construction
- Oil & Gas
- Chemical
- Power Generation
- Clean energy

Interests in CERN:

MS-4486 - Metal Bellows Expansion Joint

5 - Mechanical Engineering and raw materials

CT Ingenieros

Contact info:

jvicente@ctingenieros.es

achaves@ctingenieros.es

http://www.ctingenieros.com/index.php/home/?idioma_id=4

Short description:

The CT Engineering Group is an engineering company, a leader in technological innovation throughout the product lifecycle, from concept to post-sales services. The company has an established staff of engineers and technicians proud to participate in innovative industrial programs in Europe.

Interests in CERN:

MS-4485/SMB, MS-4403/EN, MS-4455/SMB

1 - Civil engineering, building and technical services,

4 - Information technology,

5 - Mechanical Engineering and raw materials,

11 - Transport, handling, vehicles and access equipment

Duro Felguera

Contact info:

ruth.fernandez@durofelguera.com

<https://www.dfdurofelguera.com/index.asp?MP=9&MS=33>

Short description:

Duro Felguera Calderería Pesada, S.A. (DFCP), founded in 1968, specializes in the manufacturing of pressure vessels for the Oil & Gas and Petrochemical industry and for the nuclear sector. Equipped with state-of-the-art manufacturing technology, such as rolling machines for thicknesses up to 330mm, hydraulic presses up to 4,000 tons, narrow gap welding up to 350mm and heat treatment facilities, DFCP is capable of effectively meeting customer needs, placing its great expertise at their disposal. Furthermore, over the years the company has gathered extensive experience in mechanical design and finite element analysis according to internationally recognized codes (ASME, PD5500, GOST, CODAP, AD-Merkblätter, Stoomwezen, TEMA, EEMUA etc.).

DFCP is certified in accordance with the main international codes and standards, and qualified by major vendors and technologists.

Interests in CERN:

MS-4413/TE ; IT-4380/TE/HL/LHC

6 - Vacuum and low temperature,

9 - Gases, chemicals, waste collection and radiation equipment

Elytt Energy

Contact info:

aitor.echeandia@elytt.com

angel.garcia@elytt.com

<http://www.elytt.com/>

Short description:

Elytt Energy designs and manufactures resistive and superconducting electromagnets and power supplies for particle accelerators of all types.

Interests in CERN:

2 - Electrical engineering and magnets

3 - Electronics and radio frequency

Empresarios Agrupados

Contact info:

mtdominguez@empre.es

www.empresariosagrupados.es

Short description:

Empresarios Agrupados is an engineering consultant/architect-engineering company founded in 1971. Acting for international operations as Empresarios Agrupados Internacional, S.A., it has a permanent staff of over 1000.

EA is a leading engineering organization with significant experience worldwide. It provides complete solutions in the fields of consultancy, project management, engineering and design, procurement, construction management, testing planning, nuclear safety support, quality assurance, as well as support to operation in the following areas and industrial sectors:

- Nuclear power plants (new-built) and support to NPPs in operation.
- Conventional power generation (coal and fuel).
- Aerospace.
- Defence and civil aviation.
- Information technology.
- Large infrastructures and scientific research installations including Large Telescopes.
- Innovative nuclear systems and research reactors for fission and fusion technologies.
- Decommissioning and radioactive waste management.

Interests in CERN:

- 1 - Civil engineering, building and technical services
- 2 - Electrical engineering and magnets,
- 4 - Information technology,
- 5 - Mechanical Engineering and raw materials,
- 10 - Health, safety and environment
- 13 - Services on the CERN site

Enwesa

Contact info:

sgomez@enwesa.com

asanchez@enwesa.com

<http://www.enwesa.com/>

Short description:

"ENWESA is a Spanish company with over 20 years of experience in the local, national and international field.

Lines of product:

- Manufacturing and engineering in carbon and stainless steel: spent fuel storage containers and shields, pressure vessels, heat exchangers, mechanic-welded constructions.
- Robotics and automation.
- Welding Services
- Nuclear Services: activities in primary coolant system equipment, fuel activities.
- Valves.
- Maintenance and rotatory equipment.

Interests in CERN:

5 - Mechanical Engineering and raw materials

6 - Vacuum and low temperature

9 - Gases, chemicals, waste collection and radiation equipment

Equipos Nucleares (Ensa)

Contact info:

rodriguez.amaia@ensa.es

<https://www.ensa.es/>

Short description:

Ensa is a multisystem supplier of nuclear components with proven experience, and is internationally recognized for the quality of its products, its innovative high-tech manufacturing processes and deadlines. We manufacture multiple technologies components, including our own designs, and according to the highest standards, regulations and our customers' needs and expectations. We are experts in manufacturing nuclear large components (NSSS): steam generators, reactor pressure vessels, cover heads, internals and supports, and other products: racks, fuel storage casks and transportation, heat exchangers and special tools. Ensa offers a wide variety of services to NPP (refuelling, outages, repacking, and maintenance) and other nuclear facilities, offering tailored solutions: equipment supply, maintenance, and support during facility operation and repairs from the beginning of operation to final decommissioning, as well as waste treatment.

Interests in CERN:

- 1 - Civil engineering, building and technical services
- 5 - Mechanical Engineering and raw materials
- 9 - Gases, chemicals, waste collection and radiation equipment
- 10 - Health, safety and environment
- 11 - Transport, handling, vehicles and access equipment
- 13 - Services on the CERN site

Escribano Mechanical & Engineering

Contact info:

bruno.lamy@eme-es.com

juan.humanes@eme-es.com

<http://www.mecaes.es/>

Short description:

Manufacturing of precision mechanical components and small assemblies. We offer a wide experience in manufacturing, production processes, small assemblies and CNC programming with CAD/CAM systems.

The most innovative equipment such as Machining Centres of 5, 4 and 3 axis, Erosion Machines, Lathes, Grinding, Honing and 3D Measuring Equipment.

Team skilled in plant design, automation, robotics and CAD-CAM. Actually ESCRIBANO engineers the complete optimization and automation of any manufacturing process, including: Feeding parts, 3D manipulation and tooling,

Line automation, Part traceability, Process information collecting, Instrumentation.

The manufacturing capabilities we have include nano-turning equipment with diamond tools. These techniques allow the carving of spherical and aspheric surfaces.

Surface treatment specialist: Penetrant testing, Magnetic inspection, Chemical conversion, Passivation, Anodizing Ti-Al, Electroplating, Electrogilding, Electroplating

Interests in CERN:

5 - Mechanical Engineering and raw materials

8 - Optics and photonics

Everis

Contact info:

jbovedag@everis.com

<https://www.everis.com/spain/es>

Short description:

Everis is a multinational consulting firm providing business and strategy solutions, application development, maintenance, and outsourcing services. Our company offers solutions for different business sectors: telecommunications, financial entities, industry, utilities & energy, banking, insurance companies, health organisations and the public administration.

Everis has offices in sixteen countries worldwide and currently employs over 21,000 staff (09 Sep 2018).

In January 2014, Everis became part of NTT DATA. Being part of the NTT DATA group enables our company to offer a wider range of solutions and services through increased capacity as well as technological, geographical, and financial resources."

Interests in CERN:

4 - Information technology

Fundacion Itma

Contact info:

r.alvarez@itma.es

armindo@itma.es

<http://www.itma.es/index.php/en/>

Short description:

ITMA is a private non-profit Technology Centre working on applied research of materials science with demonstrated experience technological services, technical assistances and R&D collaborative projects at regional, national & EU level. Our R&D Areas include Steel & Metallic Alloys, Refractories, Ceramics and Raw Materials, Plastic & Composites, Active Materials, Surfaces & Engineering. ITMA can offer a wide range of accredited analysis and mechanical assays for ceramic, refractories, metallic materials and welded joints according to ISO 17025. The area of Technological Services in ITMA is divided into: Metrology, Analysis and Structural Integrity. ITMA Welding Unit develops solutions related to quality improvement and saving costs & time in issues with joining processes, including R&D Projects for manufacturing optimization, Design of manufacturing automated solutions, NDT custom calibration blocks, Weldability studies and Arc-based additive welding (WAAM).

Interests in CERN:

1 - Civil engineering, building and technical services

5 - Mechanical Engineering and raw materials

6 - Vacuum and low temperature

GMV

Contact info:

jcllorete@gmv.com

<https://www.gmv.com/en/>

Short description:

GMV is a privately owned technological business group with an international presence. Founded in 1984, GMV offers its solutions, services and products in very diverse technologically advanced sectors, including space, big science and information technologies. GMV's current offer via services contracts or projects within Big Science include:

- Development and Implementation of Central/Local/User Control Centres
- Instruments processing, monitoring and control, and calibration
- Data Processing Framework, end-to-end
- Visualization, Validation & Analysis Tools
- Simulators for R&D, Analysis, Training and Ops support
- Planning and Scheduling Solutions
- Custom HW/SW Development and Independent HW/SW Verification
- Specialized Engineering Services, including Project Management Support and System Integration, Verification & Qualification and RAMS Analysis
- Autonomous robotics solutions
- Physical Security Solutions, Cybersecurity Solutions and 24x7 Services"

Interests in CERN:

3 - Electronics and radio frequency

4 - Information technology

GTD Sistemas de Información

Contact info:

javier.varas@gttd.eu

ruben.marti@gttd.eu

<http://www.gtd.eu/>

Short description:

GTD is a System and Software Engineering company devoted to the development of complex and critical applications, with a background of almost 30 years of activity in the Big Science industry.

The Science, Infrastructures & Robotics division at GTD offers:

- Instrumentation and Control
- Design, implementation and configuration of measurement, automation and control processes: fast control systems (ATCA, uTCA, cPCI), FPGA, slow control systems (PLC), Interlock Systems, ...
- Supervision & Control Rooms
- Software Engineering
- Specification, design, independent verification and validation, industrialization and certification of software specific developments and software-frameworks, also for Robotics. Experience in EPICS, TANGO, SCOS2000, MARTe, GENROBOT, CODAC, UNICOS.
- Operational Intelligence
- Domain-specific innovative-solutions in the area of operational intelligence and high-added value services: Big Data, Knowledge Discovery and Soft Computing.
- Remote Handling & Robotics

Interests in CERN:

2 - Electrical engineering and magnets

4 - Information technology

Gunnebo España

Contact info:

alvaro.rodriguez@gunnebo.com

antonio.perez@gunnebo.com

<http://www.gunnebo.es/>

Short description:

The Gunnebo Group is a global leader in security products, services and software with an offering focusing on retail, mass transit, public and commercial buildings, industrial and high-risk sites, and banks.

Gunnebo operates within four core business units: Safe Storage; Cash Management; Entrance Control and Integrated Security.

Gunnebo – we make your world safer.

Interests in CERN:

1 - Civil engineering, building and technical services,

5 - Mechanical Engineering and raw materials,

13 - Services on the CERN site

ICEX

Contact info:

Veruska.deprado@icex.es

<https://www.icex.es/icex/es/index.html>

Short description:

Agency of the Ministry of industry, Tourism and Trade serving Spanish companies to promote their exports and facilitate their international expansion.

IDOM Nuclear Services

Contact info:

marc.nunez@idom.com

xavier.amoros@idom.com

<https://www.idom.com/project/services-idom-ns/>

Short description:

IDOM NS offers a full portfolio of technical services and expertise regarding the different existing fusion and fission nuclear technologies, including: Westinghouse Pressurized Water Reactors, Rosatom Water-Water Reactors, General Electric Boiling Water Reactor (BWR), Areva European Pressurised Reactor, Advanced Gas Cooled Reactors in UK, etc.

Likewise, IDOM NS has carried out numerous projects related to fuel cycle facilities, managing spent nuclear fuel and high-level radioactive waste such as the Central Spent Fuel Storage Facility and other radiological facilities.

The IDOM NS professional services cover the majority of the technological and industrial engineering activities inherent to a nuclear facility ranging from initial site studies, basic and conceptual engineering to detailed projects, construction and decommissioning.

IDOM NS is capable of providing integrated and combined services such as EPC, EPCC, EPCM, CMA or PMC basis.

Interests in CERN:

- 1 - Civil engineering, building and technical services,
- 9 - Gases, chemicals, waste collection and radiation equipment
- 10 - Health, safety and environment,

Contact info:

jesus.alonso@tekniker.es

rafael.enparantza@tekniker.es

<http://www.tekniker.es/en>

Short description:

TEKNIKER is a technological centre that is legally constituted as a private not-for-profit Foundation, specialised in Mechatronics and Manufacturing Technologies. Our capabilities:

- Design and Manufacturing of advanced mechatronic products, particularly, scientific equipment.
- Advanced calculations and simulations
- Process knowledge on a wide range of manufacturing technologies: Chip removal processes (milling, turning, drilling, WEDM, penetration EDM, high speed machining, laser machining, ultrasonic assisted machining, micro-machining, ultraprecision process etc.), laser welding, additive manufacturing, etc.
- Thin layer deposition by PVD, micro-nano engineering of layers, design, development and characterization of thin layers, etc.
- System regulation and control (machine tools, telescopes, chemical plants, wind energy, actuators, converters)
- Vacuum technology and equipment
- Large scale metrology, design and manufacturing of ultra precision ad hoc metrology equipment"

Interests in CERN:

Mounting mechanism for cantilever with high precision positioning

High Frequency Compact Linear Proton Accelerator

2 - Electrical engineering and magnets,

5 - Mechanical Engineering and raw materials

6 - Vacuum and low temperature

7 - Particle and photon detectors

8 - Optics and photonics

INDRA

Contact info:

xcabre@indra.es

www.indracompany.com/en/

Short description:

Indra offers a comprehensive range of proprietary solutions and cutting edge services with a high added value in technology, which adds to a unique culture that is reliable, flexible and adaptable to its client's needs.

Indra is a world leader in the development of comprehensive technological solutions in fields such as Defence & Security, Transport & Traffic, Energy & Industry, Telecommunications & Media, Financial Services and Public Administrations & Healthcare. Through its Minsait unit, it provides a response to the challenges of digital transformation.

In 2016 it reported revenues of €2,709m, had a workforce of 34,000 professionals, a local presence in 46 countries, and sales operations in more than 140 countries.

Interests in CERN:

1 - Civil engineering, building and technical services

10 - Health, safety and environment

Ineustar

Contact info:

lmendoza@ineustar.com

www.ineustar.com/en

Short description:

INEUSTAR is a Spanish Science Industry Association, is the only private and non-profit association that represents, promotes and defends the interests of its associated companies and not associated (through INDUCIENCIA, the Spanish Science Industry Technology Platform) on the different segments within Science Industry sector.

INMAPA

Contact info:

david.martin@inmapa.com

<http://www.inmapa.com/?q=en/>

Short description:

INMAPA has taken part in the most important projects/programs within different technological sectors (automotive, aeronautics, railway infrastructure, naval, defence, space, energy, etc), providing comprehensive solutions with creative and innovative ideas to improve the concept and production systems.

- Design, manufacturing, assembly and commissioning of:
- Turnkey projects for capital goods and industrial installations (welding, Manipulation, assembly, etc.)
- Machining of all type of tools and components: dies, special equipment for the aeronautic sector (assembly tooling, transport tooling, composite manufacturing tooling, etc)
- Big structures mechanic-welded and special boiler making.
- Manufacturing of machined metallic aircraft parts.

Interests in CERN:

5 - Mechanical Engineering and raw materials

Innovahead

Contact info:

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ism@innovahead.com

<http://innovahead.com/>

Short description:

Innovahead is a technology consulting company that delivers bespoke Cloud solutions focusing on Data Analytics and Business Intelligence. The R&D department is continuously working in the field of Machine Learning and Artificial Intelligence with a special focus in predictive analytics and natural language understanding to help our clients to get the best out of their data.

Interests in CERN:

4 - Information technology

Insyte Electronics

Contact info:

rrodriguez@insyte.es

<http://insyte-electronics.es/en/home-en/>

Short description:

Assembly of electronic boards and equipment

Interests in CERN:

3 - Electronics and radio frequency

8 - Optics and photonics

Intarcon

Contact info:

jcano@intarcon.es

<http://www.intarcon.com/>

Short description:

INTARCON is a leading Spanish manufacturer for refrigeration units for the commercial and industrial refrigeration sector. We have gathered a vast experience on low temperature refrigeration in a temperature range from +10°C down to -50°C, based on vapour compression technology with HFC refrigerants. Following the latest markets trends we have also developed new capabilities with CO₂, low GWP refrigerants, and flammable refrigerants.

Our standard product range includes packaged refrigeration units, condensing units, evaporating units for cold rooms, low temperature liquid chillers, compression racks, etc. within a cooling capacity range from 1 to 500kW.

Our production facilities are based in Southern Spain and we supply our target markets in Europe, North Africa and Latin America through a partly-owned commercial and service network.

INTARCON has annual incomes over 14 M€, 160 employees, and makes part of a larger group in the HVAC/R sectors employing more than 500 people.

Interests in CERN:

DO-31677/EN/CV

6 - Vacuum and low temperature

Jema Energy

Contact info:

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e.santiago@jemaenergy.com

<http://www.jemaenergy.com/es/>

Short description:

Jema Energy, manufacturer of electronic power conversion systems, such as magnet power supplies, solid-state klystron modulators and high voltage DC power supplies for RF tubes.

Interests in CERN:

- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency

Keyter (Keyter Technologies S.L)

Contact info:

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agarciablazquez@keyter-intarcon.com

<http://www.jemaenergy.com/es/>

Short description:

We are an industrial group that designs and manufactures refrigeration and HVAC products with operations across Europe, Africa, America and Middle East. We operate under brands, Keyter for HVAC units and Intarcon, for commercial and industrial refrigeration.

Our product portfolio includes units with capacities from 10 kW up to 2 MW (higher under custom-made products). The technologies used are based on scroll, semi-hermetic, screw and centrifugal compressors.

Keyter group have been in the spearhead of the new refrigerants since many years ago. We are currently working with HFO solutions of low GWP and with natural refrigerants like propane or CO₂. We foresee three points of possible collaboration:

- Thermal comfort in medium/high size buildings.
- Chillers for process cooling in detector systems.
- Development and scale-up of a primary cooling system applying natural working fluids for the CO₂ evaporative cooling chosen for the thermal management of tracking detectors at LHC.

Interests in CERN:

IT-4488/SMB; IT-4482/SMB

- 1 - Civil engineering, building and technical services
- 6 - Vacuum and low temperature
- 13 - Services on the CERN site

Kimua Group

Contact info:

martin@kimuagroup.com

<https://www.kimuagroup.com/en/>

Short description:

KIMUA GROUP is a young enterprise formed by a team of people who have many years of experience and who are highly qualified professionals in the industrial sector. The company's main business activity involves the provision of services and products for lifting, transporting and securing large-scale parts and heavy machinery, or which require fragile handling.

KIMUA GROUP's core strength lies in its highly skilled engineering department which channels and manages the technical enquiries, the manufacturing processes and development of all projects.

KIMUA GROUP has all necessary resources available for designing, manufacturing and supplying our customers with a whole range of turnkey tools and accessories. Our services include assembly, packaging and intermodal transfer of heavy loads.

Also Kimua Group have a Test Bench for 1000 Tn (12mx6mx6m), to make the load tests of different tools.

Interests in CERN:

1 - Civil engineering, building and technical services

11 - Transport, handling, vehicles and access equipment

Metromecánica

Contact info:

fcomin@metromecanica.com

www.metromecanica.com

Short description:

Metromecánica is a company dedicated to provide Metrology Solutions, with a high expert in the next fields:

- Analysis of 3D geometry in complex installations
- Simulation of 3D inspections and accuracy calculations
- Programming of 3D metrology equipment
- On site survey, by using laser trackers, arms, scanners, photogrammetry, interferometry
- Inspection services in laboratory, on client facilities or in Metromecanica
- Reverse engineering solutions
- Terrestrial scanning, modelling and reverse engineering
- Building Information Modelling, BIM, services
- Development of bespoke software
- Turnkey solutions, provisioning of 3D instruments, programming, jigs and tooling, installation and maintenance

MOTUSA

Contact info:

juan.abascal@motusa.es

motusa@motusa.es

<http://www.motusa.es/>

Short description:

MOTUSA is a boiler company founded in 1958; the main production centre is located in Cantabria and it's a 6000 m² with easy communications with Ports and highways.

MOTUSA with its technical staff are Specialized in the design, construction and erection of pressure equipment, piping and welding as carbon steel, stainless steel, austenitic steels, alloyed steels, titanium, zirconium etc

MOTUSA is certified by Lloyd's ISO 3834-2005 quality requirements for fusion welding of metallic materials, EN 1090-1:2009 for execution of structures and ISO EN 9001:2015 to certify the quality Management System

Interests in CERN:

- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature

Nanoker Research SL

Contact info:

s.rivera@nanoker.com

s.menendez@nanoker.com

http://www.nanoker.com/ceramics/english/inicio_51_1_ap.html

Short description:

Nanoker Research is a manufacturer of technical ceramics (and ceramic composites) components. The main background of the company relies on advanced materials (new formulations, synthesis, conditioning), advanced consolidation processes (Spark plasma sintering, high-pressure casting, Cold isostatic pressing) and product forming techniques (turning, milling, grinding, polishing). Nanoker is providing technical solutions to the Big Science Industry (CERN, ILL, ESRF). More specifically, Nanoker is supplying components for the HL-LHC collimators (carbide graphite composite for absorbers), also ceramic insulators for magnets and different components made of technical ceramics for different applications.

Interests in CERN:

MS-4403

- 5 - Mechanical Engineering and raw materials

NewTeSol

Contact info:

fabien@newtesol.com

<http://newtesol.com/en/>

Short description:

Newtesol is THE specialist in stainless steel and Inconel weld overlay on complex parts (pump body, piping, fittings, pressure vessels, spools, etc.) but is also a large manufacturer of pressure components for nuclear business up to 100T as evidenced by our certifications ASME U, U2 and NPT:

- Spent fuel casks components,
- Pressure vessels
- Steam generator internals,
- Fuel rack components,
- Tanks,
- Heat exchangers and many other components

Interests in CERN:

5 - Mechanical Engineering and raw materials

9 - Gases, chemicals, waste collection and radiation equipment

Nortemecanica

Contact info:

severino.lopez@nortemecanica.es

comercial@nortemecanica.es

<http://www.nortemecanica.es/en/>

Short description:

Nortemecánica is a regular supplier for the manufacturing and assembly of different mechanical components for research organisations and engineering companies in Spain, Germany, Denmark, United Kingdom, USA, France and Switzerland.

Interests in CERN:

IT-4380/TE/HL/LHC (Supply of 36 vacuum vessels)

2 - Electrical engineering and magnets

5 - Mechanical Engineering and raw materials

7 - Particle and photon detectors

Nucleonova

Contact info:

jamt@nucleonova.es

jamunos@nucleonova.es

jturegano@nucleonova.es

<https://www.nucleonova.es/>

Short description:

NUCLEONOVA is an engineering company focussed on adding value services for critical sectors.

Our main service is Purchase Management, giving solutions to any equipment or spare part demanded, performing market research, assuring the fulfilment of the requested demanded, or qualifying the equipment (seismic, environmental, electromagnetic compatibility....). In case there is no available a part, we perform reverse engineering services according to the EPRI guidelines and other standards.

In addition, we offer Quality Engineering services as audits, factory inspections, works supervision, consulting services for implementing and adapting quality programs, and quality manager services for complex projects.

In our engineering services, we offer project management, equivalency evaluation, calculus, justifications, and other services.

Finally, we have in our portfolio nuclear services as radiological protection, waste management, and decommissioning.

Interests in CERN:

- 1 - Civil engineering, building and technical services
- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency
- 5 - Mechanical Engineering and raw materials

OSMOS Sistemas Electricos

Contact info:

joaquin.montes@osmos.es

david.barral@osmos.es

<https://www.osmos.es/gb/>

Short description:

We are a company that works in the field of Engineering and Construction of Electric Installations, specialized in installations in distribution and logistics centres, retail, and other tertiary buildings. Our scope is low and high voltage installations. We are official partner of Schneider Electric in the field of panelboards fabrication. We actually made the panelboards for ArceClima, our proudly partner that are working nowadays in some buildings in CERN.

Interests in CERN:

MS-4348/SMB

- 1 - Civil engineering, building and technical services
- 2 - Electrical engineering and magnets

Proactive R&D

Contact info:

jherranz@proactiverd.com

<http://proactiverd.com/>

Short description:

Proactive R&D provides valuable expertise, equipment and leadership in the field of Research and Development.

- High precision mechanics,
- Optomechanics,
- Complex Finite Element Analyses,
- UHV design,
- Cryogenics design,
- System integration,
- Procurement of equipment.

Proactive R&D proposes an extremely flexible and collaborative framework according to the customer's needs. We can provide from punctual and specific support within one single phase of the project, until full end-to-end -from concept design to final verification of the hardware-work packages.

Interests in CERN:

- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature
- 11 - Transport, handling, vehicles and access equipment

Procon Systems

Contact info:

marchante@proconsystems.net

<http://www.proconsystems.net/home>

Short description:

PROCON SYSTEMS is an industrial control engineering contractor specialized in process automation and instrumentation and control, which offers turnkey solutions to our customers. We are in the market since 1995 and our headquarters are located in Barcelona (Spain).

PROCON SYSTEMS has a team of more than 70 employees, where 80% are engineers, and develops its activity in projects for clients in more than 14 countries, with a turnover of more than 18.5 million Euros (2017), where the exports represented 80%.

Finally, PROCON SYSTEMS is certified within the quality management systems ISO 9001: 2015 and ISO / IEC 15504 by TÜV Rheinland.

PROCON SYSTEMS has been carrying out projects for the CV group, most of them, related with the renewals of the HVAC control systems for CERN infrastructures such as PS, B107 or TT40 area. Currently, we are working jointly with the Industrial Control and Safety Group for the development of the new Personal Protection Systems for the SPS complex.

Interests in CERN:

- 2 - Electrical engineering and magnets
- 4 - Information technology

Rompal Ingenieros

Contact info:

vromeo@rompal.es

<http://www.rompal.es/>

Short description:

Rompal Ingenieros is an electronic manufacturing service company. We manufacture boards from small series to medium batches. We have the knowledge of main technological process about manufacturing with more than 45 years of experience.

Interests in CERN:

- 3 - Electronics and radio frequency

RYMSA RF - SENER GROUP

Contact info:

alberto.martinez@rymsarf.com

<https://www.tryo.es/rymsarf/>

Short description:

Rymrsa is a high-level technological Spanish company focused in the design and manufacturing of radiofrequency equipment applied to different business. Its experience of more than 40 years in 100 countries makes it reference in RF market, offering innovating, flexible and competitive solutions according to the more stringent requirements of our customers. Rymrsa's main fields are Broadcast, Air traffic Control, Defence and Scientific Business. The company contributes with its experience and capacities in the radiofrequency systems installed in Big Scientific Installations such as CERN, ITER, ALBA-CELLS, GSI-FAIR, DIAMOND, ESS, CIEMAT. Its aim is supporting scientific installations offering R&D, engineering and technical consulting services, industrialization and manufacturing, test, qualification and installation, commissioning and supervision.

Interests in CERN:

- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency
- 5 - Mechanical Engineering and raw materials

SENER Ingeniería y Sistemas S.A.

Contact info:

joanmanel.casalta@sener.es

<http://www.engineeringandconstruction.sener/>

Short description:

SENER company supplies custom-made solutions for precision positioning and pointing systems for optical and electro-optical instruments and equipment in large science infrastructures. The company's activities range from conceptual studies to the production of high performance systems and instrumentation for terrestrial science facilities and space missions. The main services and products are focused on positioning systems for and mechatronics for optical instruments, vacuum systems as well as control and power electronics. SENER also has recently acquired TRYO-RYMSA with good capabilities in RF systems.

Interests in CERN:

- 3 - Electronics and radio frequency
- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature
- 8 - Optics and photonics

Sertec

Contact info:

raul.herrero@sertec.net

eduardo.cano@sertec.net

amedee@zryd.ch

<https://www.sertec.net/>

Short description:

SerTec is a Spanish company specialized in R&D and engineering services for Aeronautics, Defence, Transport and Energy.

The experience obtained by SerTec in more than 100 successful projects gives us the ability and knowledge to participate in engineering projects worldwide.

The ability of more than 50 engineers with an average experience of more than 15 years of engineering give the group the ability to cover the different stages that define an aeronautical project, either as the engineering part of Aerosertec group on a turnkey project or as engineering at a fixed price with customers.

We provide engineering services, CAD/CAM/CAE, FEM analysis, artificial vision systems, test rigs, military and defence systems, simulation and project management. Our quality management system is certified according ISO 9001, EN 9100, ISO 14001 and PECAL 2110/2310.

Interests in CERN:

1 - Civil engineering, building and technical services

5 - Mechanical Engineering and raw materials

11 - Transport, handling, vehicles and access equipment

SOLUTIA IT

Contact info:

murban@gruposolutia.com

acampanillas@gruposolutia.com

<https://gruposolutia.com/>

Short description:

Solutia IT is a Spanish IT company, dedicated to distribution, implementation, configuration and support of IT solutions, giving a global response with innovative products and services. We are partners of the main leading IT manufacturers: Dell, HP, Lenovo, and Acer.

Our portfolio includes several kinds of customized solutions:

- Enterprise: IT Systems and network administration, servers, storage, desktop computers, laptops, networking, backup, virtualization, software licenses, hardware
- Software Development: Web applications, software maintenance, Linux kernel customizing, APIs and web services
- Outsourcing: IT systems and network administration, IT support, consulting and development
- Desktop Solutions: Hardware and software integration, VDI, Virtual App, end user support
- Deployment: Logistics, inventory, warehousing, cloning, device customization, delivery, laser and ink marking
- Interactive Digital Solutions: Digital whiteboards and panels, digital signage, tablets, laptops"

Interests in CERN:

MS-4470/IT

4 - Information technology

SUPRASYS

Contact info:

santiago.sanz@suprasys.es

gustavo.sarmiento@suprasys.es

<https://suprasys.es/company/>

Short description:

SUPRASYS is a technology-based company with highly qualified personnel centred in the fields of cryogenics, vacuum, superconductivity, multiphysics analysis, electromagnetic systems, laboratory testing and instrumentation. SUPRASYS covers part or all the developing process in technological solutions (design, calculation, prototyping, testing and data analysis). Our main business lines are advance computing, R&D support to universities, research centres and private companies, big science industry and promotion of R&D projects.

Interests in CERN:

- 2 - Electrical engineering and magnets
- 5 - Mechanical Engineering and raw materials
- 6 - Vacuum and low temperature

TECELEC

Contact info:

marta.vidal@tecelec.com

juancarlos.martin@tecelec.com

<https://www.tecelec.com/>

Short description:

Since we took off in the year 2000, in Tecelec we have been developing automation equipment for companies from all different areas.

All the way to consolidate our leadership and be nowadays a reference in terms of INDUSTRIAL INTEGRATIONS, AUTOMATION AND ROBOTICS, AND INDUSTRIAL IT.

Global solutions, Smart solutions, innovative, safe, integral and adapted to every application.

We provide a strong engineering team, with our own R+D department, able to make a detailed study of each application, and develop a turnkey Project exclusive for you.

Aiming to offer you the most specialized and effective service, Tecelec reaches several business areas:

- Global tailor-made solutions
- Control and automation engineering
- Industrial software
- Industrial robotics
- Industrial safety"

Interests in CERN:

2 - Electrical engineering and magnets

3 - Electronics and radio frequency

4 - Information technology

5 - Mechanical Engineering and raw materials

Tecnalia

Contact info:

hugo.martinezdelahidalga@tecnalia.com

<https://www.tecnalia.com/en/>

Short description:

TECNALIA (www.tecnalia.com) is the product of the merger in 2010 of eight technology centres, some of which had up to 55 years of history. Currently it is one of the most important private applied research centres in Spain and Europe.

TECNALIA's mission is to transform knowledge into GDP, and hence, improve the welfare of people by creating business opportunities for companies.

TECNALIA supports its clients through research and technological development projects, technology transfer projects, innovation, technical assistance, knowledge management systems, as well as training and dissemination

As a result of over 50 years of research and innovation in different sectors. TECNALIA offers products and technological solutions for scientific Infrastructures and Science Industry in the following areas:

- Construction and Environment
- Energy Efficiency
- Advanced Materials and Processes
- Control, data access, communication and remote handling
- Testing and Certification"

Interests in CERN:

- 1 - Civil engineering, building and technical services
- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency
- 4 - Information technology
- 5 - Mechanical Engineering and raw material
- 6 - Vacuum and low temperature
- 11 - Transport, handling, vehicles and access equipment

Tecnitest Ingenieros S.L.

Contact info:

rdelgado@tecnitest.com

<http://www.tecnitest.com/>

Short description:

Non Destructive Inspection system manufacturer. Advanced NDT Engineering Company. 22 employees based in Madrid, Spain. Personnel: Key managers and employees have over 25 years of experience in the development and deployment of NDT systems.

- Own mechanical, electronic and specialized software design capability
- Development of standard Systems for different industrial sectors.
- Turn Key applications
- NDT Consultations (Level III)
- Calibration / Maintenance

Interests in CERN:

- 2 - Electrical engineering and magnets
- 3 - Electronics and radio frequency
- 4 - Information technology
- 5 - Mechanical Engineering and raw materials
- 7 - Particle and photon detectors
- 9 - Gases, chemicals, waste collection and radiation equipment

Teknoservice

Contact info:

alejandro.gonzalez@tekno-service.es

manuel.ibanez@tekno-service.es

<http://www.tekno-service.es/>

Short description:

Teknoservice is the first computer manufacture in Spain. We are the biggest IT manufacturer for the Public Administration. We are actually the only Spanish IT company at CERN from 7 years ago.

Interests in CERN:

- 4 - Information technology
- 13 - Services on the CERN site

TEMAI

Contact info:

lbussion@temai-ingenieros.com

www.temai-ingenieros.com/

Short description:

TEMAI is an aero company dedicated to design, development, qualification and manufacturing of aero electronics and electromechanical equipment in the areas of aeronautics and other high value industrial sectors, focused on design, certification and manufacturing of equipment with complex electronics.

TEMAI performs the engineering of Test Benches, Ground Support Equipments for Aircrafts and Test validation, qualification and production.

TEMAI is committed to customer engineering services with greater value. Therefore, if the project requires, it's established an engineering team onsite and offsite, locating part of our staff at customer sites in order to reduce time to market and improve development effectiveness in coordination with the engineering teams of TEMAI.

TEMAI dedicate more than 10% of annual working hours as an investment in R & D in European and national of research

Interests in CERN:

2 - Electrical engineering and magnets

3 - Electronics and radio frequency

13 - Services on the CERN site

TEYDISA

Contact info:

sergioalvarez@teydisa.com

<http://www.teydisa.com/>

Short description:

TEYDISA was founded in 1989 to provide electronic assembly services to high demanding markets such as the defence and aerospace, avionics, telecommunications, healthcare devices and electronic measurements and testing equipment among others. We proudly give the best service and flexibility in PCB assembly, hybrid assembly (chip&wire), testing, environmental screening, final equipment assembly and calibration to both Fortune 500 companies and small business, from low quantities requiring the highest level of accuracy to high volume manufacturing.

Interests in CERN:

DO-31380/EP/AID/ALICE - Supply of ALICE ITS Readout Unit Boards

MS-4433/EP/ESE Supply of full-custom Versatile Link PLUS modules

2 - Electrical engineering and magnets

3 - Electronics and radio frequency

8 - Optics and photonics

Thales Alenia Space España

Contact info:

eladio.montoyaredondo@external.thalesaleniaspace.com

<https://www.thalesgroup.com/en/global/activities/space>

Short description:

Thales Alenia Spain, a 300+ people, 70M€+ company devoted to Space communications, has taken the strategic decision to increase its activities in the Big Science sector, namely Accelerators, Fusion and Astrophysics. We have developed in the past 30 years strong capabilities in the following fields:

- RF (active and passive),
- (Micro)electronics: ASICs design, FPGAs, rad-hard electronics, ultra-fast electronics
- Integration of optical detectors
- Embedded software, massive data management, signal treatment
- Test benches

We believe these capabilities have a wide range of application at CERN.

Interests in CERN:

3 - Electronics and radio frequency, 4 - Information technology, 7 - Particle and photon detectors, 8 - Optics and photonics

MS-4440/EN Supply of irradiation tests under various conditions

Tonus Serv

Contact info:

jarc@tonuserv.com

www.tonuserv.com

Short description:

Our company is devoted to leak testing, vacuum solutions, special metal seals and vacuum engineering. Leak testing services on field are also offered.

We have already developed special solutions for different applications like nuclear (spent fuel casks testing and drying), fusion reactors (ITER vacuum chamber testing), and general industry.

TONUS is distributor of HTMS (special metal seals), LEYBOLD (vacuum systems) and MOORFIELD (nanotechnology), with strong contacts with many other relevant companies.

Interests in CERN:

MS-4436/TE

6 - Vacuum and low temperature

13 - Services on the CERN site

Alter Technology

Contact info:

julian.gallego@altertechnology.com

www.altertechnology-group.com

Short description:

Engineering and testing of components and equipment:

- EEE parts engineering, testing and procurement. Including optoelectronics components.
- Equipment and system engineering and testing: EMC, Safety, Radio, Environmental Testing, Radiation, Functional Safety

Control Systems. Industrial Controls

Electrical Engineering.

- Machine Protection & Electrical Integrity Group (David Carrillo)
- Magnets and Superconductors

Electronics.

- RF and Microwave Components and Equipment
- Electronic Modules and Crates