

# LA FRANCE AU CERN

16<sup>ème</sup> édition

Suisse

Genève

18-19 novembre 2020





## AVANT - PROPOS

État fondateur du CERN, la France est très engagée dans les projets de l'Organisation et tout particulièrement dans les grandes expériences ATLAS, CMS, LHC-b etc. ainsi que dans le grand projet d'amélioration HL-LHC (High Luminosity Large Hadron Collider). En tant que membre du CERN, la France participe pour 15 % au budget de l'Organisation.

Les physiciens, les ingénieurs et les techniciens du CNRS / IN2P3 (Centre national de la recherche scientifique / Institut national de physique nucléaire et de physique des particules) et du CEA / Ifu (Commissariat à l'Énergie atomique et aux Énergies alternatives / Institut de recherche sur les lois fondamentales de l'univers) sont depuis longtemps aux avant-postes de la recherche en physique des particules et collaborent activement avec les équipes du CERN.

L'industrie française joue également un rôle important : plus de 4000 entreprises françaises ont répondu à des appels d'offre du CERN depuis 2011 et le montant des contrats de fournitures, de services et d'utilités est en moyenne de l'ordre de 110 M CHF par an (soit environ 102 M EUR), hors fourniture de l'électricité.

Les 18 et 19 novembre 2020, près d'une vingtaine d'entreprises présentent leurs technologies innovantes au CERN dans le cadre de la 16<sup>ème</sup> édition de l'exposition industrielle « La France au CERN ». Depuis une vingtaine d'années, cet événement représente une plateforme privilégiée pour la promotion du savoir-faire français dans le domaine des hautes technologies et de la coopération avec les décideurs du CERN.

L'événement « la France au CERN » est organisé, pour la première fois en numérique, par Business France, l'agence nationale au service de l'internationalisation de l'économie française.

Business France tient à remercier sincèrement Mme Fabiola Gianotti, M. Frederick Bordry, M. Thierry Lagrange, M. Anders Unnervik, M. Jérôme Pierlot, Mme Merethe Morer-Olafsen, S.E.M. François Rivasseau, M. Damien Brintet, M. Antoine Daël, M. Nicolas Berton ainsi que l'Agence Auvergne-Rhône-Alpes Entreprises, pour leur aide et leur soutien dans l'organisation de cet événement.

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Business France is the national agency supporting the international development of the French economy, responsible for fostering export growth by French businesses, as well as promoting and facilitating international investment in France.

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Business France has 1,500 personnel, both in France and in 58 countries throughout the world, who work with a network of partners.

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## Le CERN

Fondé en 1954, le CERN est situé de part et d'autre de la frontière franco-suisse, près de Genève. Il est l'une des premières organisations à l'échelle européenne et compte aujourd'hui 23 États membres.

Le CERN, l'Organisation européenne pour la recherche nucléaire, est l'un des plus grands et des plus prestigieux laboratoires scientifiques du monde. Il a pour vocation la physique fondamentale, la découverte des constituants et des lois de l'Univers. Il utilise des instruments scientifiques très complexes pour sonder les constituants ultimes de la matière : les particules fondamentales. En étudiant ce qui se passe lorsque ces particules entrent en collision, les physiciens appréhendent les lois de la Nature.

Les instruments qu'utilise le CERN sont des accélérateurs et des détecteurs de particules. Les accélérateurs portent des faisceaux de particules à des énergies élevées pour les faire entrer en collision avec d'autres faisceaux ou avec des cibles fixes. Les détecteurs, eux, observent et enregistrent le résultat de ces collisions.

## Le grand collisionneur de hadrons (LHC)

Le LHC est l'accélérateur de particules le plus grand et le plus puissant du monde. Il a démarré le 10 septembre 2008 et est le dernier maillon du complexe d'accélérateurs du CERN. Il consiste en un anneau de 27 kilomètres de circonférence formé d'aimants supraconducteurs et de structures accélératrices qui augmentent l'énergie des particules qui y circulent.

À l'intérieur de l'accélérateur, deux faisceaux de particules circulent à des énergies très élevées et à une vitesse proche de celle de la lumière avant de rentrer en collision l'un avec l'autre. Les faisceaux circulent en sens opposé, dans des tubes distincts placés sous un vide très poussé (ultravide). Ils sont guidés le long de l'anneau de l'accélérateur par un puissant champ magnétique, généré par des électroaimants supraconducteurs. Ces derniers sont composés de bobines d'un câble électrique spécial fonctionnant à l'état

supraconducteur, c'est-à-dire conduisant l'électricité sans résistance ni perte d'énergie. Pour cela, les aimants doivent être refroidis à  $-271^{\circ}\text{C}$ , une température plus froide que celle de l'espace intersidéral. C'est la raison pour laquelle une grande partie de l'accélérateur est reliée à un système de distribution d'hélium liquide qui refroidit les aimants ainsi que d'autres systèmes annexes.

Des milliers d'aimants de types et de tailles différents sont utilisés pour diriger les faisceaux le long de l'accélérateur. Parmi eux, les aimants principaux, dont 1232 aimants dipolaires de 15m de long, utilisés pour courber la trajectoire des faisceaux, et 392 aimants quadripolaires de 5 à 7m de long qui concentrent les faisceaux. Juste avant la collision, un autre type d'aimant est utilisé pour "coller" les particules les unes aux autres, de façon à augmenter les probabilités d'une collision. Ces particules sont si minuscules que les faire entrer en collision revient à lancer deux aiguilles éloignées de 10km, l'une contre l'autre.

## Le LHC à haute luminosité

Le projet de Grand collisionneur de hadrons à haute luminosité (LHC à haute luminosité) vise à pousser les performances du LHC à leur maximum pour augmenter le potentiel de découvertes après 2027. L'objectif est d'accroître la luminosité d'un facteur 10 par rapport à sa valeur nominale. Le LHC à haute luminosité a été déclaré projet prioritaire en 2013 dans le cadre de la stratégie européenne pour la physique des particules.

Le LHC à haute luminosité, qui devrait être mis en service fin 2027, permettra aux physiciens d'étudier les mécanismes connus en détail, comme le boson de Higgs, et d'observer de nouveaux phénomènes très rares qui pourraient se manifester. À titre d'exemple, le LHC à haute luminosité produira chaque année au moins 15 millions de bosons de Higgs, contre environ trois millions en 2017.

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Auvergne-Rhône-Alpes is the first industrial region in France. Our experts have a very sound knowledge of the regional ecosystem and can help you identify the right partner or service provider. Contact us if you are looking for a specific skill.

Auvergne-Rhône-Alpes Entreprises is the economic development agency of Auvergne-Rhône-Alpes Region, in France. With its 130 experts in 11 local branches, it helps companies to grow, at every stage of their development, in our region, in France and on international markets.

Our missions:

- Promote the Auvergne-Rhône-Alpes region, its assets and advantages and its economic development
- Assist new companies in their set-up in Auvergne-Rhône-Alpes: technical and financial support, networking.
- Support companies in their investment, training and jobs, innovation, export, access to finance and European projects. For example by organizing regional booth in trade shows and business conventions.
- Contribute to the dynamics of regional clusters





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# ACEPA



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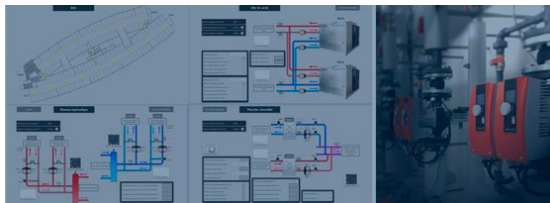
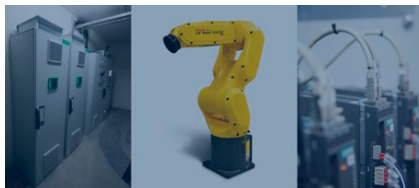
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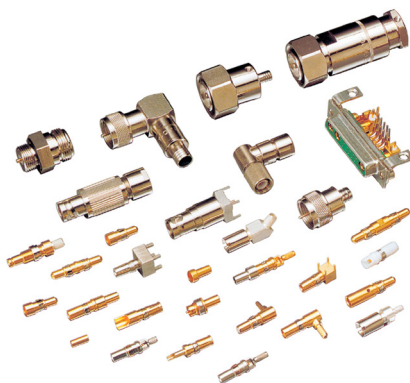
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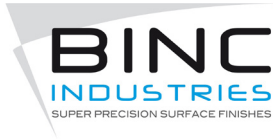
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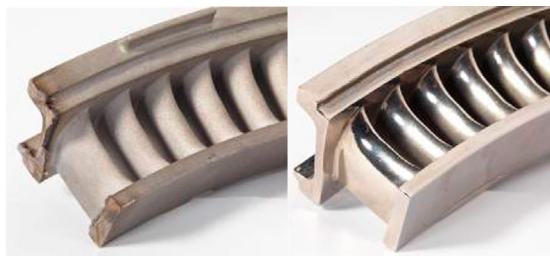
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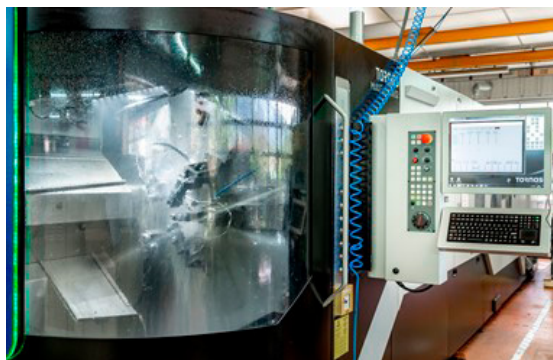
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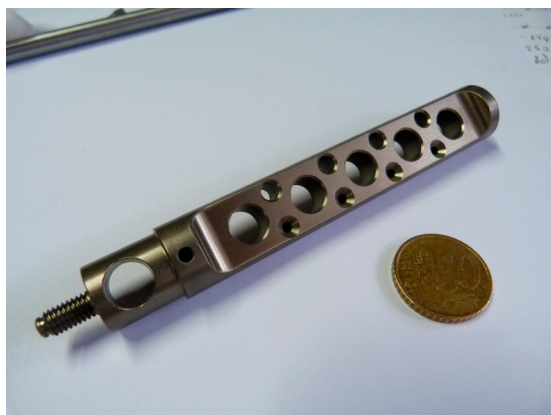
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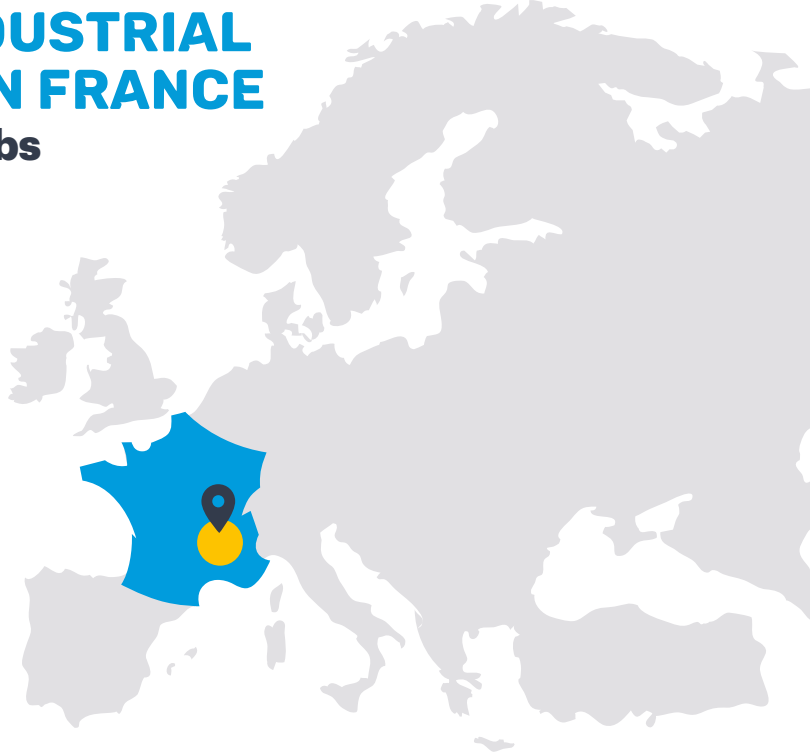
Watchmaking,  
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Housing,  
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**500,000 jobs**



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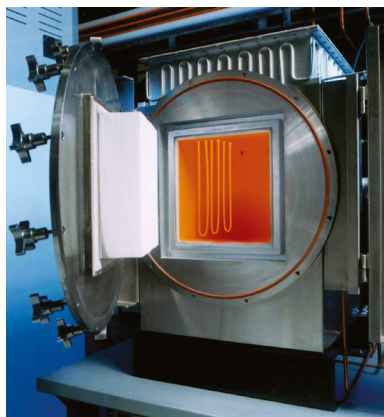
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Founded in 1977 to sale products in copper and stainless steel, INOXTUBE gradually specialized in the trade of stainless steels and nickel alloys. Today, INOXTUBE is leader in the supplying of tubes used in the analysis process (quality instrumentation and hydraulic) in straight lengths and coiled tubing.

Located at Coulommiers (France, Seine et Marne), our 500 references on stock and our various partners allow us to reply to your enquiries within 48 hours. Thanks to our organization and our flexibility, we are able to organize daily shipments throughout the French and European territory.

Certified ISO 9001 by the BUREAU VERITAS, Inoxtube is committed to maintaining the product quality.



[www.inoxtube.fr](http://www.inoxtube.fr)

# MICRONOR



## MICRONOR

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More than 50 years as subcontractor expert in custom hermetic interconnections for harsh environment (pressure, intensity, tension, temperature, etc...)

Design and production of prototypes, small and medium series, based on customer technical specifications.

Small size of pieces ( $\varnothing$  0,2 mm up to 150 mm)

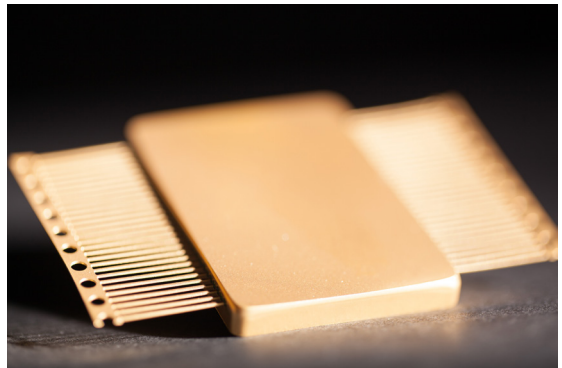
Glass to Metal seal (including dilver P1 (kovar) and titanium) and high and low temperature brazing (ceramic, sapphire, etc...)

R&D and process development for metal Physical Vapor Deposition (PVD sputtering)

Base and precious metals electroplating (specific 99,99% pure gold for space applications)

Products : feedthroughs, electronic packages, sensors, relay bases, connectors, isolators, igniters bases, medical implants etc...

Hermeticity : Leak rate less than 10<sup>-8</sup> mbar.l/s





# NUVIA



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NUVIA Group supports its customers at all stages of nuclear facility's life cycle: design, construction, operations, maintenance and decommissioning. We deliver our expertise through 3 complementary activities: Engineering, Services & Works, Products.

Managing facility risks is the core of NUVIA's approach. We offer a consistent range of products and services, whatever the risk:

NUVIATECH Protection is our product range offering protection against fire, floods, dissemination, earthquakes or radiological risk

NUVIATECH Instruments is our product line ranging from plastic scintillators to radioprotection products such as the CoMo or innovative NuVISION gamma camera, as well as waste management systems and environmental monitoring.



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facility owners, decommissioning/dismantling and  
clean-up, and waste management.

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Röchling offers you a wide range of products made of fibre-reinforced plastics. Our product range stretches from semi-finished products over machined finished parts to compression moulded parts and finished, painted and assembled sections. The manufacturing processes that are employed are as wide ranging as the range of products: moulding, filament winding and pultruding as well as machining the semi-finished products on the most modern CNC controlled milling machines in accordance with customer requirements meet all our customers' wishes.



[www.roechling-industrial.com](http://www.roechling-industrial.com)

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# SAPEM

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SAPEM is a company in the field of handling (lifting, tilting) of loads and lashing of equipments in military aircrafts. The company is integrated in engineering and manufacturing to provide a full service and ensure safety. Thanks to it's ability to solve complex problems (16 patents) the company has, over the years, established strong partnerships with key companies of the defense, nuclear, construction, aerospace and industrial sectors. With a high level of investments (10% of turnover last year) and a continuous effort in R&D, the company is committed to maintain it's growth (average 15% per year over the past 10 years) by innovation and is looking for new challenges.



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## SAVOIE TRANSMISSIONS

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# SOLCERA



**SOLCERA**  
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## SOLCERA

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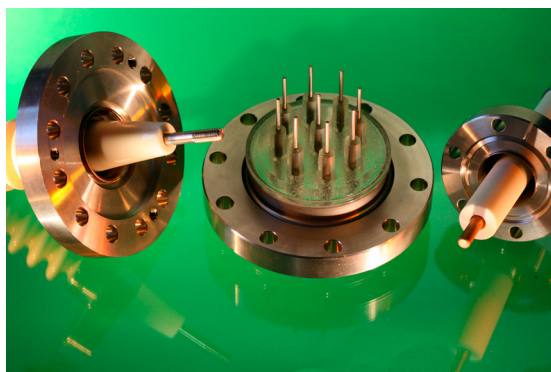
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Solcera is an independent French company, with 2 facilities in the Paris area that serve challenging markets such as nuclear, aeronautics & space, defense, energy, scientific research. Formerly known as Vermetal, the Moissy-Cramayel location provides a variety of precision components, using ceramic-to-metal and glass-to-metal technologies. We have been co-developing with particule accelerators and large scientific instruments worldwide, supplying components such as ceramic parts, feedthroughs, connectors, RF antennas. More recently, Solcera has been producing even more challenging parts such as cover-flanges fitted with 18 to 48-low and high voltage feedthroughs, meeting CERN requirements in terms of pressure, voltage, and leak tightness.



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Technetics Group is the leader of custom-designed High-Performance Sealing Solutions in Demanding Environments for critical applications in the fields of research, energy, life sciences, flow control, aerospace, semiconductor and others. Today's sealing requirements for UHV and UHP are more demanding than ever before. Through extensive research at MAESTRAL<sup>®</sup>, a joint R&D laboratory TECHNETHICS/CEA, we have developed high-performance seals and sealing solutions to solve these demanding applications. Technetics currently supplies the major engineering and research centers. Due to their strong strategic stake, Technetics' seals and sealing solutions enhance the sub-assemblies in which they are fitted.



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# VELAN

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Groupe CHAMPRENAUT



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VIOLLET INDUSTRIES is designing and producing specific metallic racks. Our both sites located in France, near Annecy and in Romania, near Brasov with 150 people working all together. We help you to package and transport your products along your supply chain.

Racks, trolleys, boxes, containers are one of the products we design to store and handle your production whatever it is: nuclear waste, truck parts, counterweights for the earthmoving industry, syringes for medical care or air conditioning amenities.

We can do a tailor-made design with Solidworks and Simulation Software.

All the production is integrated in our 18 000 m<sup>2</sup> covered workshops with every step of production from cutting to painting.

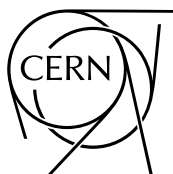


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