

Advanced manufacturing: the flagship of the local economy

Fribourg producers at the leading edge

Technology is at the core of what many companies in the canton of Fribourg do. Quite a few of these technologies – digital (Internet of Things, robotics, digital printing), materials (biobased products, nanomaterials), process-related (autonomous production, artificial intelligence) and the like – are increasingly converging.

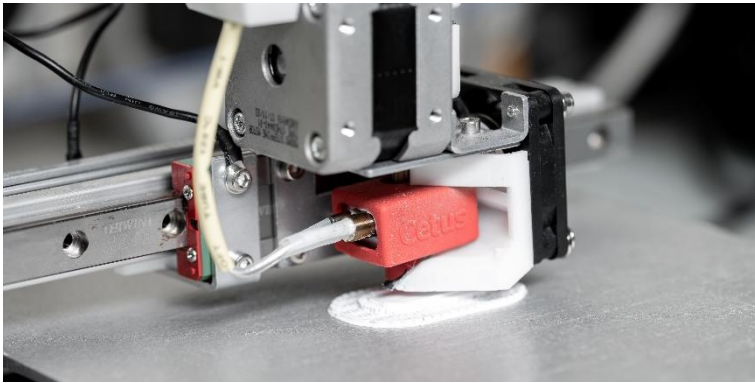
One of the main drivers of the cantonal economy are its thriving mechanical engineering, electrical, electronic and metalworking industries. The sector is made up a raft of dynamic and well-established companies that employ more than 10,000 workers. Their activities are equally diverse, from the design and production of machines and autonomous systems to additive manufacturing, and right up to the development of software capable of unlocking the full potential of big data and the Internet of Things.

Close collaboration with local research institutes and competence centers not only equips Fribourg companies with the ideal optimization tools but also gives them access to an impressive talent pool.

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competence
centers and
research institutes





iPrint Center

iPrint is an educational institute and competence center specializing in the development of and applied research on digital and inkjet printing. It is the first structure of its kind and its reach extends far beyond Switzerland. It is a major driver of innovation in digital printing technologies thanks to the work of its multidisciplinary team of experts (inkjet, material sciences, microfluidics, mechatronics, electronics and chemistry), engineers and technicians, as well as its close partnerships with industry and other academic institutions. Alongside its research on additive manufacturing, biomedical printing, graphic printing and printed electronics, iPrint is an educator, providing theoretical and practical training and continuing education modules on inkjet printing and associated technologies.

www.iprint.center



"I chose to base my start-up Mobbot in Fribourg because of the canton's strong construction sector. blueFACTORY offers us the infrastructure we need. We also have access to the brightest talent in Switzerland thanks to the universities and competence centers right on our doorstep."

Agnès Petit
 Founder and CEO
 Mobbot SA
www.themobbot.com



Plastics Innovation Competence Center (PICC)

The PICC advances sustainable solutions and a circular economy model for the plastics industry.

www.picc.center



Robust and Safe Systems Center (ROSAS)

ROSAS supports the transfer of innovative ideas between industry and the applied research community.

www.rosas.center



Institute of Applied Plastics Research (IRAP)

IRAP is a service provider and partner for industry in the specialized field of polymers.

www.heia-fr.ch/en/applied-research/institutes/irap



Le Vivier

A technology park offering companies the infrastructure for all their research, development and innovation activities.

www.vivier.ch



blueFACTORY

Innovation quarter for SMEs, start-ups and clusters working on the built environment of the future, new materials, plastics and digital technologies.

www.bluefactory.ch



Marly Innovation Center

Technology campus offering a full self-contained ecosystem and the infrastructure that companies need to succeed.

www.marly-innovation-center.org



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Some of our standard setters

3D Systems

More than 30 years ago, 3D Systems brought the innovation of 3D printing to the manufacturing industry. Today, as the leading additive manufacturing solutions partner, we empower our customers to transform their workflows in order to create products and business models never before possible.

www.3dsystems.com

Asyрил

Asyрил develops flexible and high-performance feeding systems for the automation industry. Its expertise covers the three sub-domains of modern part feeding systems: vibration technology, industrial vision and precision robotics.

www.asyрил.com

Cofiem

Cofiem is a key player in the industrial electronic equipment maintenance and supply market in Europe. Its operations increasingly extend into many different fields (nuclear, aerospace, automotive, food processing, etc.).

www.cofiem.fr

Condis

Condis is a global leader in the development, customization and production of high-voltage products and solutions for use in electricity generation and distribution systems.

www.condis.ch

CPAutomation

CPAutomation develops standardized turnkey industrial automation solutions. We are experts in micro manipulation, micro welding and visual inspection, and our technology is predominantly used in the medical, electronics and luxury sectors.

www.cpaautomation.ch

Johnson Electric

Johnson Electric is a provider of motors and electromechanical components for automobile, industrial and medical applications. It has a combined annual production capacity of over one billion motors and motion subsystems.

www.johnsonelectric.com

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"The canton of Fribourg has the ideal environment for inkjet and digital printing innovation. The Marly Innovation Center offers all the infrastructure we need for our research. Not only have inkjet products already been successfully developed at the MIC but the site is also home to several companies involved in inkjet and 3D printing in some way. This makes for a really stimulating environment and opens up exciting synergies."

Dr. Gioele Balestra

Director of Research & Education

Assistant Professor UAS

iPrint Institute

Fribourg School of

Engineering and

Architecture

www.heia-fr.ch/en/applied-research/institutes/iprint/

Markem-Imaje

Markem-Imaje builds product identification and tracking solutions, offering a complete range of inkjet, laser and thermal transfer printing systems.

www.markem-imaje.ch

Mobbot

Mobbot bridges the divide between the world of digital modelling and the real world of construction thanks to its unique and sustainable 3D concrete spray printing solution. Its patented technology can also help the building sector dramatically reduce its carbon footprint.

www.themobbot.com

Mouvent

Mouvent is BOBST's digital printing competence center. Its mission is to explore and deliver the future of digital printing. Its pioneering digital printing technology can be used on all kinds of surfaces.

www.mouvent.com

SECH – Sieyuan Electric Co

SECH is a subsidiary of Sieyuan Electric Co., which is listed on Shenzhen stock exchange. It specializes in the provision of engineering services and manufacture of products for the electricity sector.

www.sechsa.com

Swiss Plastics Cluster

The Swiss Plastics Cluster has set itself the mission of enhancing the competitiveness and productivity of its members by actively promoting plastic engineering technologies, offering tailored continuous staff training and technical advice on plastic engineering issues.

www.swissplastics-cluster.ch



"In Fribourg, we have access to a well-qualified workforce, first-rate infrastructure and strong support from the cantonal authorities. All of these factors have helped us become the world's leading producer of high voltage capacitors."

Per H. Dybwad
Executive Chairman
CONDIS SA
www.condis.ch



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