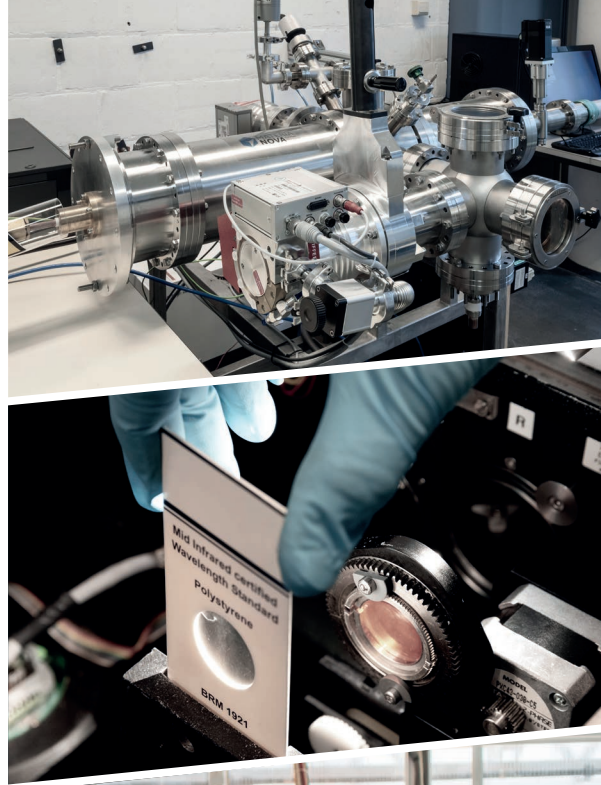


## Our strengths

- A multidisciplinary team of experts
- Collaborations with R&D centers and universities worldwide
- A wide range of cutting-edge equipment
- An open and collaborative innovation strategy at national and international level
- Innovative projects for and with industrial companies
- A strong network of companies, spin offs and start-ups (B-SENS, ESIX, IONICS and NANO4)



Chèques-  
entreprises



## ABOUT MATERIA NOVA

Materia Nova is recognized as a **technological accelerator** of sustainable innovations in the field of new materials and processes.

The approach of Materia Nova is based on an open and collaborative innovation.

From the understanding of the problems and requirements of our customers, we jointly select the best scientific and technical solutions which are then tested on a pilot-scale before industrialization.

The development and the service provided are always unique and customized and give effective solutions as well as a major competitive advantage to our customers.



## CONTACT

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UMONS  
Innovation  
Center



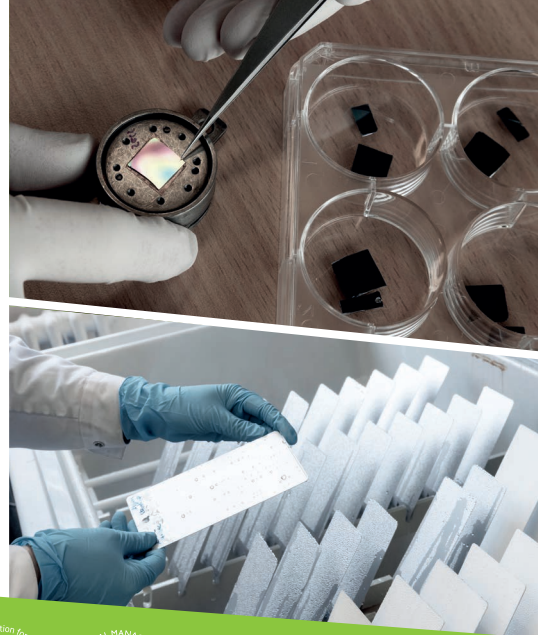
**MATERIA NOVA,  
THE TECHNOLOGICAL ACCELERATOR  
OF RESPONSIBLE INNOVATIONS  
IN MATERIALS AND PROCESSES**



## Our services

For a turnkey support from design to industrialization

- Materials and Processes conception and innovation
- Equipment Design and Process Upscaling
- Analysis and Characterization
- Life Cycle Thinking
- Project Development and Management



## Our technologies

For expertise and excellence in R&D



### Processes

- Coatings and surface treatments
- Compounding
- Chemical synthesis
- Advanced 3D printing
- Waste management
- Biobased processes
- Electropolymerization

### Materials

- Hybrid coatings (sol-gels)
- Paints, varnishes and inks
- Metallic and ceramic coatings
- Biomolecules
- Organic semiconductors
- (Bio) polymers and (nano) composites

### Smart devices

- (Bio) sensors
- Optoelectronic, piezo and thermoelectric devices
- Active surfaces

## Our solutions

For efficient, innovative and sustainable results

### Multifunctional materials and surfaces:

- Protection and durability
- Aesthetic properties
- Adhesion and surface preparation
- Electrical and electronic properties
- Optical properties
- Antimicrobial and antifouling properties
- Catalytic properties
- Fire resistance

### Materials and processes for:

#### Energy

- Energy control and efficiency
- Transport and storage
- Capture and conversion
- Production

#### Environment

- Bioprocesses and biocatalysis
- Biobased compounds and materials
- Upcycling, recycling and reforming
- Depollution and purification
- Environmental impact and management
- Eco-design and life cycle thinking

#### Health

- Diagnostic
- Controlled drug release devices
- Decontamination
- Implants and prostheses



Materia Nova implements responsible innovative and collaborative projects to respond to the societal and environmental needs, changes and challenges.

