



## TECNIO Facilitador

Polytechnic University of Catalonia (UPC)

The universities, based on the research activity, generate knowledge and some results that can be taken advantage of by the companies. The TECNIO Facilitador puts you in touch with the spin-offs, the technologies in the licensing phase and the technological capacities of the Research Group.

The Servei de Gestió de la Innovació is the commercialization office of the Universitat Politècnica de Catalunya. Its mission is to serve as a facilitator of professional and quality services, which encourages and facilitates the protection, valorisation and the transfer of research results from the UPC, and at the same time constitutes a reference for the culture of innovation and entrepreneurship.

The Govern Council of December 17, 2010 approved the creation of the Unitat de Valorització de la Recerca, from three existing offices: IPR Office, Patents and Licensing Office and Programa Innova. In a commission of inquiry of December 3, 2014 its name is modified and it is recognized as a general service of the University. However, the valorization work has been carried out at the UPC since 1998 with the creation of the Programa Innova, which has now been converted into the Servei de Gestió de la Innovació.

### TECHNOLOGY PORTFOLIO

**Technologies.** Currently we have ninety-three technologies available to be licensed and all of them distributed in industrial sectors: Telecommunications (31), Electronics (3), Health (27), Energy (10), Chemistry (8) and Construction (14). Some of the technologies available for licensing are: AQUA ABIB, ARIEL, MIPAMS and AFOSP.

**Spin-offs.** In the UPC environment more than 275 companies have been created and 75 are spin-offs. In the last two years, 11 spin-offs have been created: BALAM Engineering Systems, Sea Link BCN, SURGITRAINER, FUTURESISENS, Composite Structural Engineering Solutions, NRG.Lab, UGIAT TECHNOLOGIES, BEAMAGINE, MITIC SOLUTIONS, TERMOFLUIDS and CEBIOTEX.







**TECNIO Developers.** Currently UPC has 222 research centers and some of which are TECNIO developers such as CD6, CITCEA, CREB, DAMA, GCEM, INNOTEX, LABSON, MCIA, SARTI and SEER.

### MOST RELEVANTES PROJECTS

**Licenses. MicroLubGear technology**, an innovative automatic lubrication system for wind turbine gears, is operated by the companies Rivi-LINCOLN, Laulagun Bearings and Klueber Lubrication.

**EBT's.** The **Sparsity** spin-off created by UPC is the most innovative SME in the ICT field in Europe according to the first "Innovation Radar Report" published by the Joint Research Center of the European Commission.

### SOME AVAILABLE TECHNOLOGIES

	ICT	- Method and system for correcting errors in satellite positioning systems and computer program products thereof. - Method for optimizing the transmitter power allocation in a communications system. - Multimodal spectral clustering technology.
	Nanotechnology	- New strategy for local diffusion of dopants in crystalline silicon. - Novel motion nanosensor based on mechanical amplification. - Novel sensor for in vivo nano-mechanical characterization.
	Advanced Materials	- Surface modification of zirconia toughened alumina ceramics for implant applications. - A novel zinc free anticorrosive additive easily dispersible in priming paints. - Novel biobased aromatic and aliphatic polyesters from carbohydrates.
	Fotonics	- Flexible device to increase bandwidth in bidirectional optical link. - Optical remote node device and support equipment for constructing and extending fibre-optic access networks. - Wavelength shifter module for optical fiber access communications.
	Biotechnology	- Self driven microfluidic filter for separating liquid from a liquid including deformable particles (plasma from blood). - Nanostructured biomaterial for tissue regeneration in the treatment of vascular ulcers. - Biomass insulating material.
	Advanced Manufacture	- Process for obtaining ultra-fine crystalline silicon layers. - New solution to prevent excessive wear in gear useful for wind turbines. - New solution for ventilated facade panels.

### APPLICATION SECTORS OF THE AVAILABLE TECHNOLOGIES

-  Energy and Natural Resources. Organic chemistry. Renewable energy. Automation. CHP. Energy efficiency.
-  Agro-food Industries. Packaging.
-  Electrical material and equipment. Computer, electronic and optical products. Robotics. Electrical material and equipment. Chemistry. Advanced manufacturing. Process engineering.
-  Sustainable Mobility. Mobile telephony. Internet. Nanomaterials. Electronics. Energy. Electrochemistry.
-  Medical technology industries.



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<http://www.upc.edu/innovacio/ca>