



## Co-operation profile details from Enterprise Europe SEIMED

### TOFR20160427001 - Colaboración técnica para desarrollar un nuevo proceso de fabricación de un polímero electroactivo innovador de alto rendimiento Technology collaboration OFFER

#### Abstract

Un laboratorio francés fundado en 1962 y especializado en tecnologías eléctricas y ferroeléctricas ha mejorado considerablemente las propiedades eléctricas de films de terpolímeros más económicos. El objetivo es identificar las necesidades de aplicaciones de dispositivos médicos, aeroespaciales o portátiles para apoyar los procesos de desarrollo industrial. El laboratorio busca socios industriales con el fin de desarrollar un nuevo proceso para fabricar los films y está interesado en establecer acuerdos de investigación, cooperación técnica y licencia.

#### Description

The French laboratory, founded in 1962, has been working on organic ferroelectric material for 15 years. Their cooperation with SME and industrial groups is about 300 k€ per year worth and led to more than 11 active patents. The lab publishes 20 articles per year with a lecture committee, 20 articles in international congresses per year and 3 PhD on different subjects. The French lab is participating in different electro active materials related thematic groups along with SME and industrial panels or associations. They are very active in numerous international collaborations, especially with Thailand, Taiwan and Morocco, for example, they reached some research collaboration agreement on energy conversion and recovery using active polymer.

The R&D team has modified a simple material to improve the properties of terpolymer (P(VDF-TrFE-CFE) and P(VDF-TrFE-CTFE)) films. This material can be easily shaped with printed electronics manufacturing processes and therefore obtaining ferroelectric actuators or/and sensors devices at a very low cost. It could be used for medical, aerospace or portable devices applications. The process of fabrication is low cost and quicker than the industrial well-known process. With its high actuation properties and high mechanical sensors properties, this innovative electroactive polymer may have promising applications in haptic devices, actuators, mechanical sensors or pyroelectric sensors. The French Lab is looking for co-development partnerships with a view of patent licensing.

They want to reach some license agreements with interested partners for this technology. The laboratory would also be interested in negotiating research cooperation agreement or technical cooperation agreement.

#### Target partner expertise sought:

- Specific area of activity of the partner: The laboratory would be interested in negotiating research cooperation agreement or technical cooperation agreement.

Markets that could be interested are, for example, medical material, health application and other possibilities.

Specific area of activity of the partner :

- Passive films manufacturers
- Piezoelectric actuator and sensor manufacturers
- Haptic devices manufacturers
- Sensors and actuators for specific markets such as Medical/ophthalmic device, Aerospace, Portable devices (connected devices) or Security / Authentication

The lab is looking for Industrial SME, mid-caps or large companies to help them launch the technology onto the market. Also, they are open to research SME, inventors and University which could want to develop new applications for the technology.

#### Key information:

Country of origin: FRANCE

Listed under: Medición, Pruebas y Normas \ Servicios financieros, legales, profesionales y otros

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