

LUMIÈRE MOLECULES MATIÈRE - Light-Molecules-Matter (LUMOMAT)

LUMOMAT, a project which is supported by the Région Pays de la Loire, aims to develop molecular materials for electronics and photonics, by considering simultaneously Research, Training and Innovation issues.

Research

LUMOMAT is a consortium of seven research labs involving 150 researchers from Nantes, Angers and Le Mans and which is supported by the Région Pays de la Loire, the three universities and the CNRS.

This consortium involves internationally recognized experts on the research field of organic functional molecular materials for organic electronics and photonics and is able to propose high skills in chemistry and physics (from the conception of molecules to corresponding devices). The latter concern wide topics such as last photovoltaics generations, OLED, sensors, imaging, logical memory...

The aim of LUMOMAT is to consolidate the high visibility of the Région Pays de la Loire on these research lines, by enlarging the research network (staffs, platforms and international policy).

Training

A Master Degree of chemistry dedicated to this field has been created in 2014 by the universities of Angers and Nantes. This Master, opened to foreign students (courses are given in English, multiple European partnerships), provides a solid, original and throughout formation in chemistry, with a specialization on "molecular materials for organic electronics and photonics."

This innovative training has been specifically designed through partnerships with several industrial actors.

NEW! from September 2017, the Master Degree (2nd year) will be opened to a dual training system (academia and industry) . Alternation of studies and work will definitely enable students to gain the much needed practical experience.



Innovation

LUMOMAT, in connection to the regional Techno-poles, aims to build a complete ecosystem of innovation in the domain of organic electronics and photonics.

The project supports partnership and collaborations and relies on the current creation of a technological platform for "organic devices" which will be opened to industries.

This approach is strengthened by contracts with key industrial groups in this field.



Ambition

To confirm the Région Pays de la Loire as a key actor in the field of organic electronics in terms of Research, Training as well as for Innovation .



LUMOMAT en chiffres

153 Researchers

7 Laboratories

MOLTECH-Anjou, CEISAM, IMMM, IMN, GEPEA, CRCNA, LPhIA

3 Research areas

a) Energy: 3rd generation photovoltaics, OLED and solar fuels

b) Health and Environment: Sensors and molecular probes

c) Storage of information: Structured nanosystems

3,4 Millions for budget

Région Pays de la Loire, University of Angers, University of Nantes, Angers Loire Métropole... Partnership agreement for 5 years

8,4 Millions of contracts

Europe, ANR, Région Pays de la Loire, Industry...



Les 9 Partenaires LUMOMAT

ANR, Région Pays de la Loire, CNRS, Universités d'Angers, de Nantes et Rennes 1, ENSCR, Angers Loire Métropole

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