

LUMOMAT MASTER'S DEGREE :

Only few chemistry masters in Europe are dealing with organic electronics and materials for photonics

Why offer this MD ?

- To increase the expertise from a chemistry viewpoint and to meet the strong industrial needs in the emerging technologies related to organic electronics (plastic electronics, smart materials ...)
- To promote the interactions network between industrial groups and academics
- To promote LUMOMAT and help it reach a level of excellence

For students

- To increase the skills of both Master's and PhD students
- To increase scientific and technical skills in conjunction with project management
- To promote the professional integration of students (both at Master and PhD levels)

For laboratories and industry

- To benefit fully from their cooperation by associating Master and PhD students
- To increase the skills of industrial staff by cooperating with academics
- To promote applications inside academic labs by associating with industrial groups

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<http://www.univ-angers.fr/fr/formation/offre-de-formation/MLMD/0004/master-lumiere-molecules-materiaux.html>

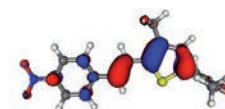
The Master LUMOMAT is supported by all the partners of the RFI LUMOMAT (Research – Formation – Innovation) .



molecular materials for electronics & photonics

Master 2 LUMOMAT

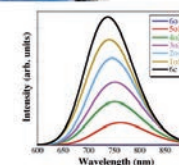
www.lumomat.fr



Conception



Synthesis



Physico-chemical Characterization



Devices



Interaction **L**umière (Light) **M**olécule (Molecule) **M**ATIères (Matter)



UNIVERSITÉ DE NANTES



université
angers



Université
du Maine



LUMOMAT Master's Degree

No equivalent in France !

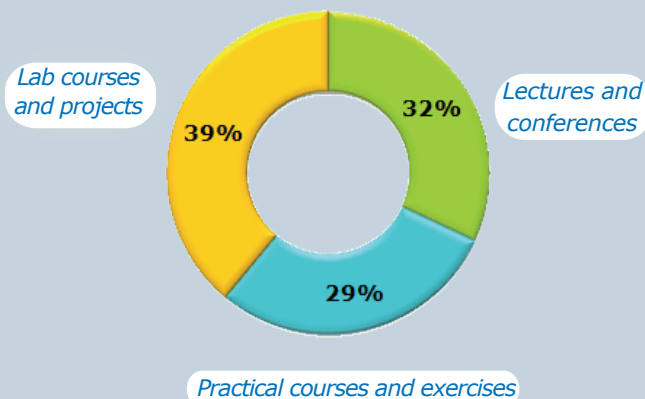
The LUMOMAT MD started in September 2014. This Master's Degree provides a solid and complete training in chemistry with a specialization in molecular materials for organic electronics and photonics.

This MD is supported by all the partners of the LUMOMAT project whose involvement ensures the excellence of future postgraduates :

- grants for international mobility,
- summer schools,
- conferences,
- partnerships with the industry,
- access to research laboratory equipments for practicals and research projects,
- preparation to language certificates.

Course organization

MD 2nd year : 437h



Content of MD (2nd year)

- Advanced electrochemistry
- Molecular engineering
- Advanced spectroscopies
- Photophysics
- Formulation and thin layers
- Organic electronics
- Supramolecular chemistry
- Project management

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A course encouraging international mobility

The LUMOMAT MD (2nd year)

This MD is proposed in collaboration between the Universities of Nantes, Angers and Le Mans. The MD (first year, M1) takes place in Nantes, whereas the second year (M2) is taught in Angers.

Career prospects

- PhD in chemistry in the field of molecular materials for organic electronics and photonics
- Engineer in Research and Development (start-ups, medium size and large companies)
- Senior executive in production or Research and Development services
- Project Manager

Students will learn the following skills

- Control of molecular strategies for obtaining organic materials with electronic and photonic properties
- Use of characterization techniques for molecular compounds and materials
- Project management
- English language skills