



UNION EUROPÉENNE

CE PROJET EST COFINANCÉ PAR
LE FONDS EUROPÉEN DE DÉVELOPPEMENT RÉGIONAL



Call for applications

AAC LUMOMAT- *International*

2018 call

Foreword

In the frame of the program of Higher Education, Research and Innovation 2014-2020, the county Région Pays de la Loire supports the most promising research projects on his territory by encouraging integrated approaches including Research, Training and Innovation (R-T-I). The objective is to implement a strategic collective action on a specific theme, after having identified the possible added values on each aspect of R-T-I triangle and at their interfaces, and their consequences in terms of visibility and attractiveness of the county.

The integrated LUMOMAT project was consolidated in 2013, and it is positioned on the theme of molecular materials for electronics & photonics, with the ambition to cover the complete chain from the molecule to the device.

The federative and interdisciplinary LUMOMAT project integrates the three university sites of Pays de la Loire, with the researchers from seven laboratories (CEISAM-UMR 6230 (Nantes), MOLTECH Anjou-UMR 6200 (Angers), l'IMMM - UMR 6283 (le Mans), IMN -UMR 6502 (Nantes), GEPEA-UMR 6144 (Nantes), CRCNA-INSERM (Nantes), LPhiA-EA 4464 (Angers)). About 150 researchers (corresponding to 80 full time equivalents) are involved in the project LUMOMAT.

The R-T-I LUMOMAT has the vocation to take part in international outreach through a network of leading academic and industrial partners. This ambition to develop an international aspect, as mentioned in the partnership agreement, involves a strengthening of the international LUMOMAT policy, particularly with an increase of the number of international projects financed by the European Research Council (Horizon 2020, COST, PHC...) with a panel of identified foreign actors.

In this context, LUMOMAT launches a fourth edition of his call entitled “International LUMOMAT”. This call is an incentive tool for the international development of LUMOMAT, with an expected leverage effect for setting up cooperative international projects on the key thematic areas of LUMOMAT.

International LUMOMAT financially supports the employment of two post-doctorates (one year of salary with 10 k€ for additional costs).

NB: International LUMOMAT is not intended to replace, but is a complement to the Internal LUMOMAT call, which addresses another goal and whose third call was launched on January 2018.

This document defines the procedure and the objectives of the International LUMOMAT call.

I. Scope of R-T-I LUMOMAT

1. Objectives of the call

International LUMOMAT aims at enhancing the international development of LUMOMAT with the specific objective to favor joint projects on the key thematic areas of LUMOMAT.

The R-T-I LUMOMAT supports basic research projects with the main objective to produce new scientific knowledge.

The support must enable to ensure at the end of the project:

- strengthening of the contacts between foreign identified laboratories which must materialize through the filing of international joint projects

(The employed LUMOMAT post-doctorate can, for instance, be part of an integrated reciprocity strategy (mirror operation with the partner laboratory)).

Important information: at the time the application is submitted, the applicant (PhD or post-doctorate coming from the foreign partner laboratory – see list below) must be identified.

A connection must already exist with the foreign laboratory. The support of the foreign laboratory must be formalized by, for instance, a letter from the head and/or director of the laboratory explaining why this post-doctorate will strengthen the collaboration within the two labs and will enable the development of joint projects and the preparation of applications to international calls. The candidate must come from one of the eight laboratories identified as belonging to the R-T-I LUMOMAT (see point V below) or must have strong contact with this laboratory.

2. Who can apply to this call?

This call concerns all the research groups located in the county Pays de la Loire, which are also partners of LUMOMAT with the seven laboratories.

The project **must be coordinated by a teacher or researcher working in the county Pays de la Loire** inside one of the seven laboratories, whose names are indicated below.

R-T-I LUMOMAT is based on three main priority research areas, which cover the complete chain from the molecule to the device in the field of organic materials for electronic and photonic:

- 1. Third generation of photovoltaic, solar fuels and organic light emitting diodes (OLEDs)**
- 2. Molecular sensors and probes for medical and environment applications**
- 3. Structured nanosystems for transport and storage of information**

The proposed project must absolutely enter in the scientific perimeter defined by one of the above areas.

The permanent teachers and researchers in the applying laboratory must be strongly involved in the proposed project and the project must be supported by the head of the laboratory.

3. Criteria of selection

The applications will be examined by the LUMOMAT selection commission with the following criteria:

Eligibility criteria :

- The area of the project (in line with scientific areas of LUMOMAT listed above),
- Adequacy of the project with the objectives of the present call (objective to strengthen the international partnership with a foreign laboratory in view of strengthening the international strategy of LUMOMAT).
- The visa of the Director of the host laboratory

Selection criteria :

- Scientific quality of the project
- The potential of the foreign laboratory to become LUMOMAT partner (co-submission of international projects), the post-doctorant's CV (he did the thesis or two years post-doctoral stay in the foreign laboratory)

II. Selection procedure and timeframe

The selection procedure will proceed in a single step for the applicant.

The full project must be written from the frame in the appendices, making sure that all items are well addressed, and sent to LUMOMAT Operating Committee **electronically** at the following address: noemie.barbot@univ-angers.fr before Monday 5th March 2018.

A paper version being containing the original signatures must follow within 3 weeks.

To facilitate the transmission of the document to external reviewers, the project will be submitted in a single PDF file with a maximum size of 3 Mo. The project will be submitted by the coordinator, and **will be accompanied by a notice from the director of coordinator's laboratory.**

- 1- The relevance of the project in relation to expectances of AAC LUMOMAT-*International* and the quality of the candidate's CV will be examined by the Operational Committee LUMOMAT.
- 2- **Scientific expertise:** the project will be sent out to at least two reviewers from outside the RFI (writing the proposal in English is mandatory). The coordinator must provide a complete list of his external current or past collaborators (in the last 3 years).
- 3- **Final decision:** on the basis of the project's relevance analysis against expectation in terms of international development of LUMOMAT and referees reports, the International Scientific Council LUMOMAT will select the granted projects in April 2018. The coordinators will be notified immediately of the final decision in order to inform the candidate quickly.
- 4- Awarding of the grant: The postdoctoral contracts will start before 31 December 2018.

III. Terms of support by LUMOMAT

1. Financial support

The projects must have a duration of 1 year.

Two post- doctoral grants (50,000 €) are open for application. Successful projects will also benefit from support of € 10,000 to cover the operating costs associated with the project.

These expenses will be justified after the project.

2. Eligible costs

Eligible expenses must be exclusively related to the costs generated by the project and do not take into account the recurrent fees of the institutions (including the salaries of permanent staff and overheads).

Eligible expenses include:

- Consumables and small equipment,
- Mission expenses, travels, conferences, stay in a partner laboratory,
- Cost of investigations, analyzes, services performed by entities outside the institution, leading to fees
- Expenses related to valorization and animation
- Master trainees stipendium

3. Administrative and financial management

Funding from the RFI LUMOMAT will be assigned to a single beneficiary: the institution responsible for the scientific coordination and administrative and financial management of the project.

4. Research grant

The present call concerns two post- doctoral grants of € 50 000 for 12 months. The post-doc will start in the year of submission of the application, under penalty of cancellation of the corresponding funding.

IV. Monitoring, evaluation, communication

Each project must include a summary for "general public" which will appear on RFI LUMOMAT site if the project is selected.

A final report (4-8 pages) accompanied by the Laboratory Director visa will be produced at the end of the contract. In addition to the scientific results, it will specify in accordance with expectations of the call the approaches in terms of implementation of international projects. This report will be accompanied by supporting documents of the expenses and will be forwarded to the LUMOMAT project manager (noemie.barbot@univ-angers.fr) at the end of the project.

The granted project will possibly be presented as part of events organized by LUMOMAT.

The terms below extracted of the financing agreement (December 2013, item 4) must be respected:

- The coordinator of the project agrees to mention the financial support of the Region via the RFI LUMOMAT on all scientific papers and publications (articles, oral presentations, thesis, posters, books ...), particularly by including logos or quoting them explicitly.
- The management team of LUMOMAT and the Region should be informed by the beneficiary of any media initiative relating to the subject of the grant paid. This disclosure requirement will possibly take the appropriate form of an official letter addressed within a reasonable time to the President of the Regional Council inviting him to participate in media operations initiated by the beneficiary.

V. List of strategic partners RFI LUMOMAT

In order to build a strong collaborative network, LUMOMAT has selected a closed list of partner laboratories with which strong links already exist and may co- deposit projects with LUMOMAT actors:

- **University of Nottingham (UK)**, Prof. David Amabilino, (<https://www.nottingham.ac.uk/chemistry/people/david.amabilino>).
- **University of Uppsala (Sweden)**, Prof. Leif Hammarström (http://www.kemi.uu.se/digitalAssets/179/179611_3cv_leif_hammarstrom_feb_2015.pdf).
- **University Complutense Madrid (Spain)**, Profs Nazario Martín (<http://pendientedemigracion.ucm.es/info/fullerene/>) and Luis Sánchez.
- **University of Strathclyde (Glasgow, UK)**, Prof. Peter Skabara (<https://www.strath.ac.uk/chemistry/staff/academic/peterskabara/>).
- **Technological University of Wrocław (Pol)**, Prof. Jarosław Myśliwiec (<http://ichfit.ch.pwr.wroc.pl/?q=user/55>).
- **University of Pisa (It)**, Prof. B. Mennucci (<https://www1.dcci.unipi.it/molecolab/>).
- **Leibniz Institute of Photonic technology, Jena (Germany)**, Prof. Wolfgang Fritzsche (<http://www.ipht-jena.de/en/institute.html>).
- **University of Bari (It)**, Prof. Gianluca Farinola (<http://www.chimica.uniba.it/it/dipartimento/personale/professori-ordinari/215-farinola-gianluca>).