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## **Call for Applicants N.ICCOM/164/2019/PI**

### **LightDyNAMics – DNA as a training platform for photodynamic processes in soft materials**

CNR, Institute of Chemistry of Organometallic Compounds offers 1 PhD position (Early Stage Researcher) within the LightDyNAMics ETN project (grant agreement n. 765266) funded by HORIZON 2020/Marie Skłodowska Curie Action for the implementation of the following research project:

**“Quantum dynamics in nucleobases and small oligomers: toward the simulation of time resolved spectra”**

#### 1. Eligibility criteria

(a) Nationality: The candidate can be of any nationality.

(b) Mobility: By the closing date of the call for applicants, the candidate must not have resided or carried out his/her main activity in Italy for more than 12 months in the 3 years immediately prior to his/her recruitment under the project. Compulsory national service and/or short stays such as holidays are not taken into account.

(c) Qualifications: By the closing date of the call for applicants, the candidate shall have a master degree or equivalent in Chemistry, Physics, Material Sciences (or related topics) corresponding to the second level of studies.

(d) Foreign language: The candidate shall be fluent in written and spoken English.

(e) Experience: Preference will be given to candidates with a strong background and interest in one of the fields reported in (c)

(f) Moreover, by the closing date of the call for applicants

– candidates shall not have been awarded a doctorate degree;

– The candidate should be in the first 4 years (full-time equivalent) of his/her research career. This includes the period of research training, starting from the date of obtaining the degree, which would formally entitle him/her to embark on a doctorate either in the country in which the degree was obtained or in Italy, irrespective of whether or not a doctorate is envisaged.

#### 2. Information related to the supervision and the contract

- The successful applicant will

- develop the project under the supervision of Dr. Fabrizio Santoro at the Institute of Chemistry of Organometallic Compounds - Pisa, Italy;



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- be enrolled in the PhD Program in Chemical and Materials Science held by the University of Pisa;
- The employment contract offered is a full time, temporary contract with full social security coverage;
- The duration of the contract is 12 Months renewable up to 33 months, to be used in any case before the end of the project (31 March 2022);
- The monthly gross salary is **3,167.00 €** In case the successful applicant has family charges, an additional allowance will be allocated once not before Month 12 of the contract period.

### 3. Evaluation criteria and selection procedure

The evaluation will consist of two selection steps: the first based on the documentation provided by the candidates and the second based on the interview. Within each step, the marks given for each criterion by the reviewers will be used against an established pass/fail threshold.

The following evaluation criteria will be applied respectively in the first and second selection step:

#### First selection step

Criteria	Mark (min/max)	Comments
Academic record and training	12.6/18	Evaluation of the marks obtained for each exam and of the relevance of the study plan with respect to the LightDyNAMics research topics proposed The average of the marks obtained during the University studies and the final score of the degree will be taken into account and normalized as a percentage against the maximum mark achievable in each university system.
Research activities	10.5/15	Publications in journals/conferences (national or international) and activities scholarships/awards relevant to the LightDyNAMics research topics. However, given the expected junior profile of candidates, active participation in research projects will score similarly



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CV/motivation Letter	10.5/15	Points will be assigned based on the following categories: (1) competence on the research topics (CV); and (2) organization, sequencing, content, vocabulary and word choice, critical thinking, originality and creativity and accuracy of the motivation letter
Level of English	3.5/5	Evaluation of any document stating that the candidate has the necessary proficiency (e.g., British Council, TOELF and IELTS).
Reference letters	4.9/7	Points will be assigned based on the following elements: 1) level of detail, 2) specific information about the candidate, 3) knowledge about the candidate, and 4) profile of the candidate.
Overall Threshold to pass this evaluation step is 42/60		

#### Second selection step

Criteria	Mark (min/max)	Comments
Scientific knowledge in the field of interest	10.5/15	Applicants will be invited to describe their scientific profile with respect to LightDyNAMics research topics
Research experience in the field of interest	7/10	Applicants will be invited to talk about their research experience /subject of the thesis
Motivation	7/10	Interest in the research topic will be evaluated.
English	3.5/5	Fluency in English will be evaluated
Overall threshold to be included in the final ranked list is 28/40		

#### **4. Criteria for the composition of the evaluation commission**

The evaluation procedure will be carried out by a Management Committee (MAC), dealing with the administrative and formal requirements of the applications; 2) a Scientific Evaluation Committee (SEC), reviewing the scientific quality of the applications.



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The scientific panel will be composed of 3 to 6 members according to the number of applications received. It will include representatives of the Doctoral School (from 1 to 2), representatives of the CNR institute (from 1 to 2) and external evaluators (from 1 to 2).

## **5. Deadline and procedure for the submission of the application**

Deadline for application is **10 February 2019**.

The application is done by sending the following material via e-mail to the address

[segreteria-pi@pi.iccom.cnr.it](mailto:segreteria-pi@pi.iccom.cnr.it) or [manuela.cempini@pi.iccom.cnr.it](mailto:manuela.cempini@pi.iccom.cnr.it).

The subject of the mail should be “**Application for call ICCOM/164/2019/PI**”

**A message will be sent to confirm the application has been correctly received.**

The following information and documents will be required in the application:

- Europass CV, including a detailed description of the Full Time Equivalent (FTE) research experience;
- Proof of nationality (copy of passport or identity card);
- Copy in English or Italian of University diploma;
- Copy in English or Italian of study results (i.e. grades of university exams, both for Bachelor and for Master);
- Proof of language test results (e.g., British Council, TOEFL and IELTS) except for applicants whose mother tongue is English;
- Preferred research topics;
- Copy of publication(s);
- Motivation letter;
- Two reference letters.

It is also suggested to provide a skype address together with the application. Each item of the above list should preferably correspond to a different file. It is recommended to zip all the material in a single zip file.

## **6. Date for the interview**

Candidates will be notified by e-mail of the results of the formal analysis of the applications made by MAC and of the first step of evaluation made by SEC. **The text of this call is valid as convocation for the interview of candidates passing the first step of the evaluation procedure. The interviews will be carried out via skype on 19 February 2019, starting at 9.00 am central European time.**



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**7. For any further information please visit or contact**

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