



PHD FELLOWSHIP PROGRAM: CALL FOR SCHOLARSHIPS AND PRE-DOCTORAL CONTRACTS ASSOCIATED TO ICIQ RESEARCH PROJECTS (Code 02/13)

I. Purpose of the call

The Institute of Chemical Research of Catalonia (ICIQ) established the PhD Fellowship Program with the aim to support university graduates from all over the world to enroll in a training and research program in the area of chemistry that ultimately leads to the completion of a Doctoral Thesis.

Graduate students will be awarded a scholarship or a contract for full-time studies in order to achieve the Doctoral degree. Scholarships and contracts hereinafter referred to as grants, will be awarded in accordance with the principles of publicity, objectivity and competitiveness.

II. Eligibility criteria

- 1.- The program is open to graduate students from any nationality that fulfill the following eligibility criteria:
 - a.- Hold a Master Degree in the areas of Chemistry, Pharmacy, Physics, Biology, Biochemistry or Chemical Engineering or an equivalent degree which allows them to start PhD studies.
 - b.- Be admitted in a PhD Program at the time of the signature of the pre-doctoral contract.
- 2.- Or, in the event that the applicant must previously perform a master's degree to complete the number of ECTS (European Credit Transfer System):
 - a.- Hold a Spanish Bachelor's Degree in Chemistry, Pharmacy, Physics, Biology, Biochemistry or Chemical Engineering or an equivalent degree awarded by a foreign University.
 - b.- Be enrolled in a Master Program at the time of signing the scholarship credential with ICIQ.



III. Application process

- 1.- Application deadline: **20/10/2013**
- 2.- Applicants must submit the following documents by email (phdfellowships@iciq.es) or post (PhD Fellowship Program Code 02/13; Institut Català d'Investigació Química, Avinguda Països Catalans 16, 43007 Tarragona).
 - a.- Signed application form available at www.iciq.es.
 - b.- The research project reference for which the candidate is applying. The projects offered in this call are specified in Appendix I.
 - c.- Copy of the Academic record of the studies which provide access to the master or the PhD program. For degrees obtained in foreign institutions, the academic record must include the range of marks used in the country of origin and the minimum mark to pass.
 - d.- Curriculum Vitae, specifying the completed degree program and any relevant professional experience, along with any relative justifying documentation, if necessary.

IV. Evaluation and Selection Process

- 1.- The evaluation and selection of the candidates will be performed by the Selection Committee consisting of the ICIQ's Director, the ICIQ's vice-director for academic affairs and the project supervisor.
- 2.- The Selection Committee will evaluate the documents received from all candidates and, when necessary, will call them for personal interviews.
- 3.- The selection will be based on academic marks and CVs.
- 4.- List of awardees will be published on the ICIQ's website.
- 5.- Applicants not selected will be placed on a waiting list to fill any possible vacancies.
- 6.- On acceptance of the grants, awardees should hand in a copy of the admission document to a PhD program, or copy of the enrollment document to a Master

Program for those applicants that must previously perform a master's degree to complete the number of credits ECTS needed to access the pre-doctoral contract. The applicant must include a copy of the voluntary insurance contracted when applying to the master program.

V. Scholarships and pre-doctoral grants' conditions

- 1.- The students admitted in a PhD Program will be considered research personnel in training and they will have an employment contract (a pre-doctoral contract) which is regulated in the Spanish Law 14/2011, of June 1st, of Science, Technology and Education.
- 2.- The contract will have an initial duration of one year, and it will be yearly renewable, until a maximum duration of up to four years, or six in the case of a handicapped person.
- 3.- The grant holder is entitled to temporary interrupt the grant in the following situations: temporary disability, risk during pregnancy, maternity, paternity and adoption or foster care. The time elapsed during this interruption will not be accounted for against the total time.
- 4.- The starting date of the grant will be agreed between the beneficiary and the supervisor. The contract will take effect on the date when the awarded student joins the center.
- 5.- The gross yearly salary of the contract shall be €13.200 (1st year), €13.600 (2nd year) and €15.400 (3rd and 4th year), split into 12 monthly payments.
- 6.- The contract includes the costs of enrolment in the PhD program. These costs will be paid by each beneficiary to the university, and later it will be refunded by the ICIQ.
- 7.- Those beneficiaries that must previously perform a master's degree to complete the number of credits ECTS needed to access the pre-doctoral contract will receive a scholarship which includes the Master program enrolment costs and a fixed amount to help with their living expenses. The cost of the master program will be paid by the beneficiary to the university, and later it will be refunded by the ICIQ.



- 8.- The beneficiary will sign a scholarship credential with ICIQ.
- 9.- Once the Master Degree is finished and the required ECTS credits are obtained, the beneficiary must enroll in a PhD program and follow doctoral studies at the ICIQ.
- 10.- If the awardee student resigns during his / her Master or does not enroll in a PhD program to follow the doctoral studies at the ICIQ, he / she shall refund to ICIQ the amount of the scholarship received, including the enrolment costs to the Master.

VI. Incompatibilities

- 1.- The Scholarship or the pre-doctoral contract regulated in these call is incompatible with any other grant with the same purpose.
- 2.- With the previous approval of the ICIQ Director the grants for mobility, the prizes awarded because of the academic record and the grants for short stays in other institutions, will be compatible with the ICIQ grants. When compatible grants include the fees for enrollment to a Master degree or a PhD program, these will be refunded to ICIQ.

VII. Obligations

- 1.- The pre-doctoral student must submit to ICIQ one month before the expiration date of his/her yearly contract a brief report on the work done and results obtained over the previous year.
- 2.- Approval of this report by ICIQ and the University PhD Program Committee is a necessary requirement for the renewal of the contract.
- 3.- The beneficiary must hand in a copy of the PhD program registration for next academic year.
- 4.- The beneficiaries must include in their written works the expression "With the support of Institut Català d'Investigació Química (ICIQ)".
- 5.- The beneficiary must hand in a copy of the document which certifies the obtaining of the PhD Degree within a maximum of 10 business days from the date of the thesis defense to the ICIQ.

VIII. Revocation

- 1.- The scholarship or the pre-doctoral contract will be terminated in the event of falsification of information, or in case of incompatibility with other fellowships or financial aid provided by other public or private institutions.
- 2.- The pre-doctoral contract may also be terminated if the PhD student does not fulfill his / her obligations.

IX. Publicity

All information about the call will be published on the ICIQ announcement board, in the ICIQ website www.iciq.es, and, if required, in the BOE (Official State Gazette, www.boe.es).

X. Confidentiality

- 1.- The beneficiaries must maintain strict confidentiality regarding the data, research results and other information which she/ he may become aware of during the course of her/his research tasks, be they related to her/his specific tasks or not.
- 2.- This obligation will remain after the end of the labor relationship.
- 3.- At the end of the contract, the student will return all the research related documents to the project supervisor. Keeping documents or copies containing information related to the collaboration with the institution is strictly prohibited.
- 4.- Any innovation, improvement or invention that the beneficiary may achieve must be reported immediately to the supervisor. The rights over these achievements will be property of the Institute of Chemical Research of Catalonia.



Tarragona, June 19th 2013

Dr. Miquel À. Pericàs

ICIQ's Director

Appendix

- **Reference: 02/13-1**

Project: Development of new Gold-Catalyzed Transformations

Supervisor: Antonio M. Echavarren

- **Reference: 02/13-2**

Project: Synthesis of new gold catalysts

Supervisor: Antonio M. Echavarren

- **Reference: 02/13-3**

Project: New methods for the synthesis of nanographenes

Supervisor: Antonio M. Echavarren

- **Reference: 02/13-4**

Project: Modelling Homogeneous Catalysts in-silico

Supervisor: Carles Bo

- **Reference: 02/13-5**

Project: Computational Homogeneous Catalysis

Supervisor: Feliu Maseras

- **Reference: 02/13-6**

Project: Computational enantioselective Catalysis

Supervisor: Feliu Maseras

- **Reference: 02/13-7**

Project: Catalysis design from first principles for a sustainable chemical industry

Supervisor: Núria López

- **Reference: 02/13-8**

Project: Multi-Component and Stereo-Chemical Synthesis using Carbon Dioxide as Molecular Building Block

Supervisor: Arjan Kleij

- **Reference: 02/13-9**

Project: Multi-Component and Stereo-Chemical Synthesis using Carbon Dioxide as Molecular Building Block

Supervisor: Arjan Kleij

- **Reference: 02/13-10**

Project: Modular Asymmetric Approaches to Asymmetric Catalysis"

Supervisor: Anton Vidal

- **Reference: 02/13-11**

Project: Cooperative Catalysis with Multifunctional Polymer and Nanoparticles

Supervisor: Miquel À. Pericàs

- **Reference: 02/13-12**

Project: Enantioselective Catalysis with Iodine in High Oxidation State

Supervisor: Kilian Muñiz

- **Reference: 02/13-13**

Project: Molecular Catalysts for Redox Reactions

Supervisor: Antoni Llobet

- **Reference: 02/13-14**

Project: Organometallic Fluorine Chemistry and Catalysis

Supervisor: Vladimir Grushin

- **Reference: 02/13-15**

Project: Heterogeneous Catalytic Conversion of Carbon Dioxide

Supervisor: Atsushi Urakawa

- **Reference: 02/13-16**

Project: Organocatalytic Strategies for the Enantioselective Remote Functionalization of Carbonyl Compounds

Supervisor: Paolo Melchiorre

- **Reference: 02/13-17**

Project: Asymmetric Catalysis of Photochemical Reactions driven by Visible Light

Supervisor: Paolo Melchiorre

- **Reference: 02/13-18**

Project: Catalytic on-target conversion of ethylene to α -olefins: modular ligand approach and mechanism.

Supervisor: Alexandr Shaphir

- **Reference: 02/13-19**

Project: Organic solar Cells: New materials and new methods for light-to-energy conversion systems.

Supervisor: Emilio Palomares