

Second ICIQ PhD FELLOWSHIP PROGRAMME

The Institute of Chemical Research of Catalonia (ICIQ) establishes the PhD Fellowship Programme with the aim to support excellent students from all over the world to enrol in a training and research programme in the area of chemistry ultimately leading to the completion of a Doctoral Thesis in partnership with the Universitat Rovira i Virgili (URV). The programme will also contribute to their professional development and next career steps, both in academia and industry.

- This objective is achieved by:
 - The performance of an individual research project under the direction of an internationally renowned group leader in a creative and stimulating scientific environment.
 - Opportunities for short stays in renowned international research institutions.
 - Opportunities for complementary training in technical and soft skills designed to ensure a successful career: weekly scientific seminars, hands-on training in the use of state-of-the-art scientific instrumentation, IP management, entrepreneurship, knowledge and technology transfer, grant's applications, project management, communication skills and career development.

The program is addressed to highly qualified and talented graduate students with a keen interest in chemical research. Candidates should have an excellent academic record, strong commitment to scientific research and solid working knowledge of English.

Admission to the programme is on a competitive basis.

I. Available positions: See Annex 1

II. Eligibility criteria

The programme is open to graduate students, from any nationality that fulfil the following eligibility criteria:

- a. Candidates must have a Master or an equivalent degree in the areas of Chemistry, Pharmacy, Physics, Chemical Engineering or related disciplines which must be completed by the time of enrolment in the PhD programme.

In case of doubts about the eligibility criteria, applicants should contact the ICIQ Human Resources Team at positions@iciq.es prior to submission of the application.

III. Application process

All the application procedure will be made online. Other means of application will not be considered. Applicants must fill out and submit the online application form available at the Jobs & Grants section on ICIQ's website (<http://www.iciq.org/jobs-grants/>).

Only one application per person will be considered. In case of multiple applications, we will just consider the first application submitted.

After completing online the personal data fields, applicants must attach the following documents:

1) Required documentation

- a. A full **Curriculum Vitae** (in PDF format).
- b. A **Personal Statement** that describes the applicant's academic background, research experience and career goals (maximum two DIN A4 pages, in PDF format). This is a very important part. Please take the time to communicate what your interests are and how they would fit into carrying out your PhD at ICIQ. You should also mention the group that you would like to join to carry out your PhD and the reasons you are interested in the group leader and the research project.
- c. **Official transcripts** of your BSc and MSc studies in PDF format. A scanned copy of the certified academic record of the studies granting access to the PhD programme (BSc and MSc if available). In case that the MSc studies have not yet been completed at the time of the application, include details on the subjects in which you are currently enrolled (subject name and number of credits). For academic records not issued in Catalan, Spanish or English, a certified translation in English should be provided. For degrees obtained in foreign institutions, the academic record must include the range of marks used in the corresponding countries and the minimum mark to pass, as well as the hours or ECTS and marks for each subject.
- d. **Contact details for letters of recommendation** of two University professors or other relevant individuals who can assess your potential for research. We will

directly contact the persons you list for letters of recommendation. We suggest informing them.

- e. **English proficiency level:** Applicants must supply evidence of their proficiency in written and oral communication in the English language (B2, First Certificate, IELTS 6 or equivalent). Applicants from Anglosphere (UK, Ireland, USA, Canada, Australia and New Zealand) are exempted from this requirement
- f. Candidates have to provide the Bachelor and Master universities positions in the Shanghai university ranking:

<http://www.shanghairanking.com/ARWU2017.html>

2) Desirable documentation

- a. **Chemistry level:** The score of your Graduate Record Examination (GRE) – Chemistry Test is an added advantage for evaluation.

Please note that documents sent in hard copy cannot be processed.

Applicants should select one PhD supervisor.

Once the application has been successfully completed, an acknowledgement e-mail will be automatically sent. Candidates must ensure that all information is included before the deadline. Incomplete proposals will not be considered.

In accordance with the Personal Data Protection Organic Law 15/1999, 13th December, we inform you that we will proceed to include your data in the Curriculum Vitae data base that has been duly registered in the Data Protection General Register of the Spanish Data Protection Agency. The data provided will be used only for recruitment and selection processes carried out by the Organization. You may exercise your right to access, cancel, rectify or oppose this information by either writing to the Organization at the following address: Av. Països Catalans 16, 43007 TARRAGONA or by sending an email to: LOPD@iciq.es

III. Evaluation and Selection Process

The evaluation and selection of the candidates will be performed by the Human Resources Team, and the project supervisor following this procedure:

1. Submitted proposals will be checked for eligibility and those not fulfilling all the criteria will be rejected. There will not be the possibility to modify the application or to add missing documentation after the call deadline.
2. The selection will be based on academic marks, scientific merits, academic and professional references, working knowledge of English and the personal interview.
3. At the late stages of the selection process, candidates will be contacted for a personal interview.
4. All applicants will be notified of the final selection decision by middle of August. The name of the awardees will be published on the ICIQ's website.

Successful candidates will be requested to inform ICIQ whether they accept or decline the offer within one week after being notified. The offer will be considered declined if the applicant does not respond during this time.

The ICIQ follows in its selection process a gender equally opportunity policy and a non-discrimination policy on the basis of age, ethnic or social origin, religion or belief, sexual orientation, language and disability.

IV. Fellowships' conditions

1. The awardees of an ICIQ PhD fellowship 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. Pre-doctoral contracts are renewed annually for up to 4 years. Renewal is subject to satisfactory performance in the PhD studies and related research activities.
3. The gross yearly salary of the contract shall be €16.200, split into 12 monthly payments.
4. The fellowship includes full social security coverage through the Spanish Social Security system, providing access to the Spanish public health care system and pension and unemployment benefits.
5. The fellowship holder is entitled to temporary interrupt the fellowship 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.

6. The contract will take effect on the date when the awarded student joins the centre.
7. The PhD fellowship includes the costs of enrolment in the PhD programme. These costs will be paid by each beneficiary to the university, and later they will be refunded by the ICIQ. The PhD thesis has to be completed within 4 years.
8. The PhD fellowship awardees will work full-time at ICIQ and may not receive any other fellowship or regular income.
9. The PhD fellowship is incompatible with any other fellowship with the same purpose.

Indicative Calendar

Call opening	9 May , 2018
Call deadline	12 June 2018
Notification to candidates	From 23 July to 10 August 2018
Start of fellowships	September-October 2018

Tarragona, 7 May 2018

Prof. Miquel A. Pericàs

Dr. Lluís Solà

ICIQ Director

ICIQ Administrative Director

Annex 1: Available Projects

Supervisor: **Prof Carles Bo**

Computational chemistry to tackle complex reactivity

http://www.iciq.org/research/research_group/prof-carles-bo/

1 position: Ref. **PhD 2018/20**

Supervisor: **Dr Elisabet Romero**

Design, construction, and investigation of chromophore-protein systems to achieve the efficient conversion of solar energy to fuel

http://www.iciq.org/research/research_group/dr-elisabet-romero/

1 position Ref. **PhD 2018/21**

Supervisor: **Prof Feliu Maseras**

Single electron transfer in computational homogeneous catalysis

http://www.iciq.org/research/research_group/prof-feliu-maseras/

1 position **PhD 2018/22**

Supervisor: **Prof Arjan Kleij**

Domino Reactions mediated by transition metal catalysts

http://www.iciq.org/research/research_group/prof-arjan-w-kleij/

1 position Ref. **PhD 2018/23**

Supervisor: **Prof Antoni Llobet**

Molecular redox catalysis for energy applications

http://www.iciq.org/research/research_group/prof-antoni-llobet/

1 position Ref. **PhD 2018/24**

Supervisor: **Prof Núria López**

Modeling of materials: systematization strategies

http://www.iciq.org/research/research_group/prof-nuria-lopez/

1 position Ref. **PhD 2018/25**

Supervisor: **Prof Kilian Muñoz**

Catalysis with redox-active halide reagents for alkaloid total synthesis

http://www.iciq.org/research/research_group/prof-kilian-muniz/

2 positions Ref. **PhD 2018/26** and **PhD 2018/27**

Supervisor: **Prof Pau Ballester**

Molecular and supramolecular containers based on calix[4]pyrrole scaffolds: basic studies and applications

http://www.iciq.org/research/research_group/prof-pau-ballester/

1 position Ref. **PhD 2018/28**

Supervisor: **Prof Julio Lloret-Fillol**

Photo- and/or electro-catalytic organic transformations using catalysts based on earth abundant elements.

http://www.iciq.org/research/research_group/dr-julio-lloret-fillol/

2 positions Ref. **PhD 2018/29** and **PhD 2018/30**

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