

Competition for research posts  
**Examinations for the Marie–Curie Experienced Researcher (ER)**

**COMPETITION: PI 11059**

**COMPETITION CONDITIONS:**

1. Regulations

The competition is subject to the following regulations:

- Organic Law 6/2001, 21 December, regarding Universities, modified by Organic Law 4/2007, 12 April.
- Law 1/2003, 19 February, regarding the universities of Catalonia.
- Decree 202/203, 23 August, of the Catalan Government's Department of Universities, Research and Information Society, which approved the Statute of the URV.
- The Regulations governing the contracting of research personnel to provide work or service in the execution of specific technical or research projects approved by the Governing Council on 21 December 2006.
- The collective agreement for the teaching and research staff of the Catalan public universities, 10 October 2006 (Official Journal of the Catalan Government, 14/02/2007)

2. Job description

- Department: Department of Chemical Engineering
- Entity/category/scale: Experienced Researcher (ER)
- Research project / Work or Service: Advanced encapsulation technology for sustainable detergency (CAP-IT-Marie Curie-IAPP)
- Project code: *PIAP-GA-2009-251298*
- Description of the tasks to be executed: The goal of this research project is to develop hybrid models by developing systematic tools for the optimal design of sustainable processes to produce microcapsules. Specifically, we will investigate the combined use of mathematical programming, process simulation and life cycle assessment principles to automatically generate the best process alternatives that may be implemented and compare with the actual technology used. Our approach relies on the combined use of multicriteria mixed integer modeling techniques and life cycle assessment principles as a way of systematizing the computation of process alternatives that may lead to important environmental savings.
- Location: Department of Chemical Engineering

3. Characteristics of the contract

- Research staff
- Specific works or service contract linked to the execution of a specific technical or research project.
- Duration of contract: 1 year (01/02/2012 – 31/01/2013)
- Full/Part Time: Full time

4. Candidate requirements

a) General

- Be 18 years old or over and will not have reached retirement age.
- Not have any defect or disease that would prevent him/her from carrying out the job normally.
- Not have been dismissed from the service of any of the public administrations through disciplinary action, or be unable to carry out public service.
- Not be disqualified from entering the public service through incompatibility, as defined by Law 53/1984, 26 December, regarding staff incompatibilities in the public administrations.
- Possess a doctoral degree or equivalent.

b) Specific The candidate will present:

- A photocopy of the candidate's national identity document
- A curriculum vitae detailing the candidate's research and professional history, accompanied by the necessary accrediting documentation.
- A photocopy of the candidate's doctoral degree certificate

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- Merits: We need young talented individuals who have background in Chemical Engineering, Computer Science or Mathematics. In addition to technical excellence and good knowledge of English, we also look for skills such as passion for winning, creativity, innovation, initiative, communication, leadership and the ability to work with others. Knowledge on process modeling (e.g. Aspen Plus, HYSYS...) as well as basic knowledge of mathematical programming and optimization (e.g. gPROMS, GAMS, Matlab...) will be considered as a valuable asset. Also LCA will be considered as a valuable aspect
  
- Requirements :
  - a. Researcher must not have resided or carried out their main activity (work, studies, etc) in Spain for more than 12 months in the 3 years immediately prior to the deadline for selection. Short stays, such as holidays, are not taken into account.
  - b. Researcher must at the time of the deadline for selection by URV, either be in possession of a doctoral degree, irrespective of the time taken to acquire it, or, have at least four years of full-time equivalent research experience (experienced researcher)

### 1. Application forms

Anyone wishing to participate in this competition and who meets the requirements to do so must present the corresponding application form by means of the model that can be found on the URV's website (<https://seuelectronica.urv.cat/treballar-a-la-urv/convocatories-pdi/> ⇨ Convocatòries de Personal Investigador Contractat)

Applications must be presented between 11.00 and 13.00 from Mondays to Fridays at the auxiliary registry of the Central Services, which is located in building N5 of the Universitat Rovira i Virgili (c/ Marcel·lí Domingo, 2-4-6 del campus Sescelades, post code 43007 de Tarragona).

Applications can also be presented at any other auxiliary registry or at the General Registry of the Universitat Rovira i Virgili. The location and opening hours of the auxiliary registries and of the General Registry can be found at <https://seuelectronica.urv.cat/registre.html>.

In accordance with article 38 of Law 30/1992, of 26 November, on the Legal System governing the Public Administrations and Common Administrative Procedure, applications can also be submitted using the following three additional options:

- To the registries of any administrative body belonging to the General Administration of the Spanish State or to the registries of any administrative body belonging to the Autonomous Communities.
  
- To any Spanish State Post Office, in accordance with the pertinent regulations. If the application is sent by certified post, the application and all relevant documentation must be presented at the corresponding Spanish State Post Office in accordance with article 31 of Royal decree 1829/1999, of 3 December, in an open envelop so that the application, document or notification that is addressed to the Universitat Rovira i Virgili can be dated and stamped before being certified. If the application is not dated and stamped by the corresponding Spanish State Post Office, then the application's date of presentation will be regarded as the date on which it arrives at the General Registry of the Universitat Rovira i Virgili.
  
- To the diplomatic representations or the consular offices of the Spanish State abroad.

If the applicant uses one of these three additional options, the applicant must send a telex, telegram or fax within the application submission period stating that this is the case to the Human Resources Service of the Universitat Rovira i Virgili.

Address: Universitat Rovira i Virgili, c/ Marcel·lí Domingo, 2-4-6 del campus Sescelades, post code 43007 de Tarragona, Fax: 977297032.

**The deadline for the submission of applications is 28th December 2011**

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2. Commissions

1. Composition.

President: Laureano Jiménez Esteller  
Secretary: Ricard Garcia Valls  
Commission member: Dieter Thomas Boer

3. Selection process

The selection committee will meet to decide which candidate is the most suitable for the post. The selection process has two stages: 1) the presentation of the candidates and 2) an examination. During the first stage, each candidate will provide the commission with his/her curriculum detailing his/her research and professional history and the necessary accrediting documentation, which will be judged and evaluated by the commission.

The examination will consist of an interview with the candidate, who will have to demonstrate his/her ability to meet the university's requirements (as stated in the job description).

4. Proposed candidates

Once the candidates have been assessed, the commission will present the rector with a proposal listing all the candidates that have passed the assessment in order of preference. This proposal will also list the reasons why each candidate has been accepted and will be binding. The commission may also propose that the post remains unfilled.

Once the rector has seen the proposal, he/she will pass a resolution appointing a candidate for each post in the order proposed by the commission. This resolution will be published on the Human Resources Service's notice board and on the URV's website.

5. Formalizing the Contract

- a. Should the candidate renounce the post or not sign the contract, the rector will appoint the next candidate in order of preference from the previously published list of candidates.
- b. If the candidate is from a non-European Union country, he/she must comply with the necessary legal requirements in order to be contracted and registered with the Social Security System.
- c. Under no circumstances may the candidate start work before he/she is registered with the Social Security System.

6. Complaints procedure

The interested parties can lodge an administrative appeal against this competition and its conditions with the Administrative Court in Tarragona within two months, counting from the day after the competition has been published. Prior to this administrative appeal, an appeal for reversal can also be made to the rector within one month of the day after the competition has been published.

Likewise, the interested parties can lodge an appeal with the rector of the URV against the administrative acts that may result from the actions of the commission. This appeal may be lodged within one month of the notification or publication of these acts. If no response has been given after three months, the appeal may be understood to have been dismissed by the university, which is not required to issue any specific resolution relating to the appeal. In this case, an administrative appeal can be lodged with the Administrative Court in Tarragona within six months from the day that the appeal to the rector is understood to have been dismissed. If a resolution is issued regarding the appeal lodged with the rector, the period for lodging an administrative appeal will be two months from the day that this resolution is issued.

Likewise, the interested parties may lodge any other appeal they deem appropriate for the defence of their interests.