

Competition for research posts
Examinations for Researcher

COMPETITION: PI 20021

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, modified by Government agreement GOV/23/2012.
- 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 08 July 2005 and subsequently amended.
- 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 Mechanical Engineering
- Entity/category/scale: Researcher
- Research project / Work or Service: *"eStructurAción de un sector transfronterizo de Valorización del tallo de maíz y de giraSol para productos de CONstrucción"*
- Project code: CONVENIO TRANSFRONTERIZO DE PARTENARIADO EFA353/19/SAVASCO
- Description of the tasks to be executed:

The tasks to be developed are divided into three main parts:

1. The first one will consist in the support of the characterisation of the materials based on bio-aggregates and the subsequent hygrothermal characterisation, durability and fire behaviour of the construction solutions developed by the project. For this purpose, the equipment available at GICITED's laboratories will be used. Short stays will be possible at the UPS Tarbes centre.
 2. The second part will focus on the design of the constructive solutions and on the two full-scale prototypes that will incorporate the products developed during the project. One of them will be built in Tarbes (Toulouse) and the other in Sant Cugat (Barcelona). The design will have to meet the regulatory, climate and economic conditions of each of the locations and be adjusted to the implementation, handling and exposure conditions of the solutions developed. The design of the prototypes will include their energy optimisation value by means of energy modelling tools and the incorporation of passive environmental control elements adapted to the climatic areas considered. The calculations will be carried on EnergyPlus and TRNSYS. The candidate will also need to collaborate in the preparation and planning of the construction works, the drafting of the blueprints and the preparation of all the documentation necessary for the construction of the prototypes. The construction of the two prototypes will be carried out by the construction company Develgreen, a partner in the project. The candidate will need to supervise the construction work on these prototypes and record and evaluate the entire process. In addition, she or he must carry out the design and installation of the monitoring systems necessary for the analysis of the dynamic thermal behaviour and environmental quality of the prototypes.
 3. The third part of the mission will focus on monitoring follow-up which includes testing the instruments and collecting and analysing the data generated. This data will then be used to further calibrate the energy model built previously.
- Location: URV - Tarragona

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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: 01/09/2020 - 31/08/2021
- Full/Part Time: Part Time (32 hours/week)
- Salary in accordance with the collective agreement for the teaching and research staff of the Catalan public universities (Official Journal of the Catalan Government, 14/02/2007).
- Funding agency: Consortium of the Pyrenees Work Community (through the INTERREG V A SPAIN-FRANCE-ANDORRA (POCTEFA) 2014-2020 PROGRAM)

4. Candidate requirements

a) General requirements

- 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.

b) Specific requirements:

- Possess a doctoral degree or equivalent

The candidates must satisfy these requirements at the latest by the last day of the period for presenting applications.

c) Merits:

- The candidate will need to have a scientific background within the field of architecture, engineering or applied physics.
- Previous experience in the field of construction materials and/or energy efficiency of buildings will be an asset.
- Experience in drafting basic and executive projects and familiarity with the building regulations of at least one of the participating countries (France or Spain) is highly desirable, as well as previous experience in construction management.
- The candidate must be familiar with environmental design and have advanced knowledge of DesignBuilder, OpenStudio Energyplus and/or TRNSYS.
- Previous participation in energy monitoring campaigns of buildings and data management would be an advantage, as well as previous knowledge of bio-based building materials.
- The candidate will need to be open-minded and be able to combine laboratory scale analysis with field work.
- The set task will mainly be developed in Barcelona and Tarragona, with the possibility of short stays in Tarbes (Toulouse) in particular in order to attend the coordination meetings and for the supervision of the constructions. Knowledge of French, Catalan and/or Spanish is highly desirable. In any case, it will be necessary to have a good level of both spoken and written English.

5. Application forms

5.1 Any person who wishes to participate in this competition and who meets the requirements to do so must make an application using the template on the website of the URV: [Convocatòries de Personal Investigador Contractat](#).

Applications will preferably be presented online via the electronic registry of the Universitat Rovira i Virgili. To access this, you must click on the <https://seuelectronica.urv.cat/registre.html>, then click on "Accés al registre electrònic" and then click on Instància genèrica.

You can also make an application in one of the following ways:



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A) At the General Registry of the URV. Find the location and opening hours at <https://seuelectronica.urv.cat/registre.html>

B) Other channels in accordance with article 16 of Law 39/2015, of 1 October, regarding the common administrative procedure of the public administrations (BOE no. 236, of 02/10/2015).

Applicants who do not submit their documentation via the online registry or the physical registry of the URV must inform the URV's Human Resources Service by sending an email to gestiodepi@urv.cat within the specified application period and attaching their application form and any relevant documentary proof.

Deadline for applications: **5 August 2020**

5.2 The application form must be accompanied by:

- Photocopy of the DNI/NIE or Passport
- Photocopy of the candidate's doctoral degree certificate
- Curriculum vitae detailing the candidate's research and professional history, accompanied by the necessary accrediting documentation.
- Receipt for payment of the examination fee

Merits that are not accompanied by accrediting documentation will not be taken into account.

The candidate's working history can be accredited by job contracts, certificates issued by the relevant company, an employment record, etc.

5.3 Fees charged to participate in the examination:

- a) Candidates must pay an examination fee of €69.25 to the bank account of the Universitat Rovira i Virgili, which is with the BBVA and whose number is ES5701 8260 35 4102 0161 8358, SWIFT: BBVAESMM. On the transfer they must state their full name, tax identification number (NIF) and the code of the position that they are applying for, in accordance with Law 15/1997 and Order GAH/83/2017, of 9 May, which publishes the 2017 fees for procedures administered by the Department of Governance, Public Administrations and Housing.
- b) Exemptions: Candidates may be exempt from paying the fee if they can provide documentary proof that they are unemployed and receive no financial assistance, that they are retired or that they have a level of disability equal to or greater than 33%.
To prove that they are unemployed and receiving no financial assistance, candidates must include with their applications a certificate from the Oficina de Treball (Office of Work) or the Servicio Público de Empleo Estatal (SPEE – Public State Service for Employment) that confirms that they are currently seeking employment and that they receive no financial assistance; this certificate must have been issued during the application period. They must also include a declaration of responsibility stating that they are unemployed and that they do not receive any income for paid work.
- c) Candidates who wish to take advantage of the contributions towards fees that are specified in Order GAH/83/2017 must provide proof of their right to do so.
- d) Failure to pay the fee either fully or in part or failure to demonstrate eligibility for a fee contribution will lead to the candidate being excluded from the selection process.
- e) Examination fees will be refunded at the request of those candidates who have been permanently eliminated from the selection process and provided that these candidates have not been eliminated as a result of their own actions.
- f) Under no circumstances will payment of the fee be regarded as a substitute for making the formal application to the University in the period and manner specified in the present conditions.

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6. Admission of candidates

Once the deadline for presenting applications has expired, a provisional list of candidates who have been admitted and excluded will be published on the URV's website: "[Convocatòries de Personal Investigador Contractat](#)".

Within 10 calendar days, applicants can amend their application or, if appropriate, present their arguments to the Vice-Rector for Teaching and Research Staff.

Once the deadline described above has expired, the definitive list of candidates who have been excluded and admitted will be published at the same address as the provisional list.

The Administration of the University can at any time amend, at its own initiative or by request, the material errors that may have been made during the procedure.

7. Commissions

1. Composition.

President: Dieter Thomas Boer
Secretary: Laureano Jiménez Esteller
Voting Member: Manel Vallès Rasquera

Substitute President: Alberto Fernandez
Substitute Secretary: Josep Maria Mateo
Substitute Voting Member: Carles Turón

8. Selection procedure

The selection committee will judge and evaluate the curriculum vitae provided by admitted candidates. The committee members may decide to interview candidates in person to justify which candidate is the most suitable for the post. The committee shall draft a reasoned report on the merits of each candidate and a proposal addressed to the rector.

9. Proposed candidates

Once the candidates have been evaluated, the committee will provide the rector of the University with a list, which will be binding, of all the candidates who have passed the selection process. The candidates will be listed in order of preference. The position may also be declared unfilled.

If the committee's proposal is not unanimous, the dissenting committee member will record his or her own evaluation and order of preference of the candidates he or she has evaluated favourably.

In view of the committee's proposal, the rector will announce the decisions, naming a candidate for each vacancy in the order proposed by the committee until all vacancies have been filled.

10. Contracting

From the day after the publication of the rector's decision, candidates have to present the documents required before the contract can be signed to the Human Resources Service.

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.

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.

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Under no circumstances may the candidate start work before he/she is registered with the Social Security System.

11. Duration

These contracts will expire automatically when the specific scientific or technical project to which they are related is completed. Consequently, the duration of each of these working contracts is connected to, but will never exceed, the duration of their corresponding research projects.

12. 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.

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