



RESOLUTION of 22th of February of 2023, of the University of Valencia, announcing the public offer of employment for different positions within this organisation with employment contracts under various research projects.

The Rector's Office of the University of Valencia, making use of the powers attributed to it by article 20, pertaining to article 2.2 of Organic Law 6/2001, of December 21, on Universities, resolves:

To open a call for the public offer of employment for different positions within this organisation with employment contracts under various research projects, as listed in the annexes of this resolution, in accordance with the following requirements:

#### One. General rules

1.1. The purpose of this offer is the selection of staff to fill various positions for research projects through the competition system.

1.2 In accordance with the provisions of article 73 of Organic Law 6/2001, of 21 December on Universities, modified by Law 4/2007, of 12 April, these selective exams must meet that which is established by current legislation for the civil service of the Regional Government of Valencia, and by the labour regulations stipulated in the Workers' Statute and its modifications.

The specific university regulations included in the Organic Law on Universities, the Law of Science and the Statutes of the University of Valencia, as well as in the regulations of this call, will also apply.

1.3. The selection processes for each call will be carried out through a competition that will consist of the evaluation of merits and an interview.

1.4. The allocation of positions to applicants who pass these selection processes will be carried out according to the order of points obtained, provided that they meet the requirements for each job position in the annex of each call.

1.5. This call will be published in the Official Gazette of the Autonomous Community of Valencia (DOGV), on the official notice board of the University of Valencia, for which the website <https://webges.uv.es/uvTaeWeb/VerTablonFrontAction.do?filtro=tipo&valor=48&filtrar&grupoNavegacion=0&servicioNavegacion=-1>, and on the website of the Human Resources Service (Administrative and Services Staff [PAS]), PAS Research section: <http://www.uv.es/pasinvest>.

Publication in the DOGV will be taken as a reference for the purposes of calculating the deadlines for the submission of applications.

The other publications that derive from the events that form the selection process will be published on the official notice board and on the website of the Human Resources Service (PAS), research section.

#### Two. General requirements for applicants

Applicants must meet the following requirements to be admitted:

2.1. Be a Spanish national, a national of a member country or be from any of the states in which, by virtue of international treaties established by the European Union and ratified by Spain, free movement of workers applies in the terms by which this legislation is defined in



the Treaty of the European Union. In this event, it is necessary to submit proof of having applied for an EU residence card.

Likewise, applicants of nationalities other than those mentioned above may apply and will only need to meet the requirements established in current regulations. Applicants who are allocated positions offered must provide proof of at least their work and residence permit at the time of hiring.

2.2. Be at least 16 years old on the day of the closing date of the application submission period.

2.3. Hold one of the academic qualifications that appear in the annex corresponding to the call applied to, or be in a position to obtain the corresponding qualification on the closing date of the application submission period.

In the event that qualifications have been obtained abroad, it is necessary to be in possession of documents showing official recognition or declaration of equivalence in Spain, and a photocopy of the same must be attached to the application.

When qualifications have not been officially recognised or declared as equivalent, this requirement may be replaced by proof of having started the process for recognition or declaration of equivalence. The contract will be terminated if the competent academic authority denies recognition, understanding an application to be denied when it is conditioned to the fulfilment of certain requirements which have not been met.

2.4. When a language level is required, the University of Valencia Equivalence Table for L2 certification, approved by the Agreement of the Governing Council of July 10, 2018 (ACGUV 156/2018) will be used for its evaluation. Language courses will not be evaluated, only the levels attained. <https://links.uv.es/0AWddjI>

2.5. Not suffer from illness or be affected by physical or mental limitations that are incompatible with the exercise of the relevant duties.

2.6. Not be suspended from exercising public functions, or have been dismissed from any administrative or public position through disciplinary proceedings. Applicants who are not Spanish nationals must also prove that they are not subject to any disciplinary action or criminal conviction that prevents them from accessing the civil service. Failing this, a copy of an application for issuance must be provided, without prejudice to the sworn statement of the interested persons.

All these requirements must be met at the end of the application submission period and maintained during the selection process.

Applicants are responsible for the veracity of all the information stated in their application and the documentation provided, and may be liable in the event of falsehood, without prejudice to their exclusion from the selection process where relevant.

### Three. Applications

3.1. Interested persons must meet the requirements indicated in the annex corresponding to the call applied to. Applicants must submit their applications, together with their CVs and documents showing their alleged merits through the electronic application form that the University will make available to them and for which the link (url) will be published on the PAS Research Section website, <http://www.uv.es/pasinvest>, from the day when this resolution is published in the DOGV.

To complete the application form, the University has made a guide available to interested persons that can be accessed at the following link: <https://go.uv.es/sNh0jds>.



Those who have any difficulties carrying out the electronic procedure can access the University of Valencia ICT support tool via the following email address: [entreu@uv.es](mailto:entreu@uv.es). For any other questions about the details of this call, please contact the team at the Research Management section of the PAS Human Resources Service by sending an email to: [convopi@uv.es](mailto:convopi@uv.es)

3.2. The application submission period will close 10 business days from the next business day following the publication of this resolution in the Official Gazette of the Autonomous Community of Valencia (DOGV).

#### Four. Documentation to be attached electronically

Several documents must be attached to the electronic form, preferably in PDF format. The said documentation must be inserted in the tabs and space allocated to it. As follows:

4.1. The PDF document of academic certificates or the receipt of issuance fees must be inserted in the fourth tab. In the case of foreign certificates, it will be necessary to show proof of the relevant recognition or equivalence, or have initiated procedures for the same.

Other PDF documents that show any other requirements necessary for the call must also be inserted in this tab.

4.2. The PDF document of the National Identity Document (DNI), Passport or Foreigners' Identification Number (NIE) must be inserted in the fifth tab. These last two documents are only required if the applicant is not a Spanish national.

4.3. The CV must also be inserted in the fifth tab as a PDF document or ZIP, through the model set out at the following link: <http://go.uv.es/F3LCmfj>

It will not be necessary for the attached documents to be duly certified at this point in the procedure. A sworn statement made by the interested person on the authenticity of everything stated in the application and the attached documents will be sufficient, without prejudice to the fact that the committee or University may require applicants to prove the veracity of the circumstances and documents provided, and evaluated, at any time.

#### Five. Selection system

5.1. The selection process will be composed of a competition consisting of the evaluation committee's assessment of the applicants' curricular merits, and, where appropriate, conducting an interview.

Merits will be evaluated in accordance with the scale that appears in the annex corresponding to the call applied to. Merits for which proof has not been provided within the application submission period will not be taken into account for the resolution of the competition.

5.2. The committee may, if deemed appropriate, conduct an interview with the applicants. The number of applicants who continue to the interview phase will be determined by the criteria of the evaluation committee.

5.3. Once the selection process has ended, the applicants' scores will be published and proposals for hiring and creating the job pool will be carried out through the University of Valencia notice board and on the website: <http://www.uv.es/pasinvest>

5.4. The allocation of positions called will be carried out by resolution of the management, and will also be published on the notice board and the website mentioned in point 5.3. of this regulation.

5.5. The evaluation committee may declare the selection procedure void in the event that, after evaluating the merits and, where appropriate, conducting interviews, the profiles of the



candidates with the best scores do not fully meet the profile of the position and the needs of the project.

5.6. The job pools that derive from these selection processes will remain in force for the duration of the research project for which the calls were opened. Calls to applicants will be made according to the order of the pool.

#### Six. Evaluation Committee

6.1. The evaluation committee is that which appears in the annex corresponding to each call.

6.2. The provisions of the Agreement of the Governing Council of the University of Valencia (ACGUV/303/2021) which approves the Roadmap on public integrity measures, prevention and fight against fraud, corruption and conflicts of interest will apply to the members of this committee.

To this end, they must complete the relevant declaration of absence of conflict of interest (DACI), which will be attached to the committee's constitution certificate, and form part of the administrative file. There will be a model standardised by the University on the following website: <https://links.uv.es/G0o6oAT>

6.3. The committee will clarify all questions that may arise in the application of these rules and everything that must be done in unforeseen cases.

6.4. The committee's procedure for action will meet the provisions of Law 40/2015, of 1 October, on the Legal Regime of the Public Sector at all times.

6.5. For communication and any problems that may arise, the evaluation committee's office will be located in the place indicated in the annex corresponding to the call applied to.

#### Seven. Hiring

7.1. Once the selection processes of this call have been completed, the contracts will be executed in writing and the most appropriate contractual arrangements from those in force at the time of this execution will be used for the purpose of the same.

7.2. The start date will be set out in the proposed contract, depending on the needs of the projects and provided that it is administratively feasible.

7.3. Contracts may be terminated for any of the causes provided for in the Workers' Statute or in other applicable legislation, in addition to those stated in the contract itself. Among these, the following will be established:

7.3.1. Completion or exhaustion of the budget allocation.

7.3.2. Completion of the tasks assigned to the employee's position within the project.

7.3.3. Completion of the project.

#### Eight. Information on collected data

8.1. The University of Valencia is the entity responsible for the data provided by applicants for this selection process. The information received will be exclusively processed for the purposes of the call in addition to subsequent staff management, where appropriate, in accordance with the provisions of existing data protection regulations.

Part of the data may be published on the Official Notice Board of the University of Valencia and on the website of the Research Management Section. In addition, data will also be transferred to the members of the evaluation committee for the assessment of merits and, where relevant, to resolve any complaints made.



8.2. Those who wish to access the selection process file and consult the data of other applicants must previously request access from the Evaluation Committee or the HR Service (PAS), PAS-Invest Section.

In the abovementioned request they commit to keeping the duty of confidentiality of the data and using the appropriate discretion, only being able to use the data for the purpose of raising a possible complaint or allegation.

The use or disclosure of this data other than in the cases mentioned above may imply liability in accordance with current legislation.

8.3. For more information on data processing, please consult the following link: <http://go.uv.es/88bqyH6>

#### Nine. Language clause

The full text of this resolution and annexes have been written in English, Valencian and Spanish. All three versions are official; however, the Spanish version is to be used in case of discrepancy.

#### Ten. Appeals

An optional appeal for reconsideration may be filed against this resolution, which exhausts administrative remedies, before the same body that issued the resolution within a period of one month from the day following its notification or publication. A contentious-administrative appeal may be filed before the bodies of the contentious-administrative jurisdiction of the Community of Valencia within a period of two months from the day following its notification.

The appeal provided for in Law 39/2015, of 1 October, of the Common Administrative Procedure of Public Administrations may be filed against the actions of the evaluation committee.

Likewise, the administration, if appropriate, may review the resolutions of the court in accordance with the aforementioned regulation.

Valencia, 22<sup>th</sup> of February of 2023. The rector, by delegation (DOGV 30/05/2022), the Manager: Juan Vicente Climent Espí.



## ANNEX I

Project: "Monitorización acústica y multimodal asistida por inteligencia artificial: computación afectiva y reconocimiento de eventos para la seguridad en la conducción. CPI-23-075". Co-financed by the State Research Agency - AEI -, by the Ministry of Science and Innovation and by the "European Union - NextGenerationEU" - Recovery, Transformation and Resilience Plan.

Public offer of employment for a junior PhD researcher position.

### 1. General conditions of the position offered

#### 1.1. Job title and classification:

Junior PhD researcher.

Group: A, subgroup. A1

1.2. Working hours: 37 hours per week.

1.3. Provision of the grant: the purpose of this grant will be to fund the salary, among other items. The monthly gross salary, full-time, will be 2,323.23 euros (12 payments).

1.4. Functions and tasks to be carried out:

- Design of automatic learning models for localization and identification of acoustic events.

- Multi-channel audio recordings inside and outside of vehicles.

- Use of advanced capture systems using spherical microphone arrays.

1.5. Purpose and duration: design and commissioning of spatial audio systems for event detection in vehicles.

The contract will be determined by the duration of the project and budget availability.

#### 1.6 Requirements

1.6.1. Qualifications: PhD in the area of information and communication technologies, or equivalent qualification;

The qualification must have been obtained a maximum of 4 years prior to the publication of the call; the date when the PhD was awarded will be understood as the date of reading and passing the doctoral thesis.

### 2. Scale

2.1. Scientific Production (up to 40 points): thesis supervision, publication of scientific articles, books, book chapters and monographs and presentation of work in scientific meetings will be evaluated according to the Scale for the evaluation of the current Annual Research Report at the time of the publication of the call.

2.2. Preferential merits related to the purpose of the contract (up to 20 points): the Tribunal may agree to conduct an interview in order to better specify the evaluation of preferential merits.

Master's Degree in Telecommunications Engineering, or equivalent qualification.

Demonstrable knowledge in one or more of the following areas:

- Acoustic engineering.

- Capture and reproduction of spatial audio.

- Machine learning.

- Internet of things.

Knowledge of audio equipment and electroacoustics.



Mastery of Matlab and/or Python programming languages.

2.3. Participation in competitive research projects (up to 15 points):

2.3.1. For each year of certified participation as a full-time team member of research projects in competitive calls of the National R&D Plan or Autonomous Programmes, 3 points will be assigned

2.3.2. For each year of certified participation as a team member of European research projects, 5 points will be assigned

2.4. Participation in knowledge transfer activities (up to 15 points):

2.4.1. For each year of certified participation as a full-time team member of contracts and agreements to carry out research projects, 3 points will be assigned. Services, consulting and training activities are excluded from this scale.

2.4.2. For appearing as co-inventor/co-author of patents, utility models or other types of industrial or intellectual property, 5 points will be assigned

2.5. Postdoctoral stays at universities and research centres other than the centre where the doctoral thesis was obtained (up to 10 points):

2.5.1. For each certified year of stays at other universities and research centres funded by competitive calls of the European Framework Programme, National R&D Plan or Autonomous Programmes, 5 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

2.5.2. For each certified year of stays at other universities and research centres without competitive funding, 2 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

3. Evaluation committee members

President: Enrique Navarro Camba, professor at the Departament d'Informàtica.

Member 1: Maximo Cobos Serrano, professor at the Departament d'Informàtica.

Member 2: Abilio Candido Reig Escriba, professor at the Departament d'Enginyeria Electrònica.

Member 3: Esther de Ves Cuenca, professor at the Departament d'Informàtica.

Secretary: Inmaculada Coma Tatay, professor at the Departament d'Informàtica.

4. Alternate evaluation committee

President: Carmen Botella Mascarell, professor at the Departament d'Informàtica.

Member 1: Francesc Josep Ferri Rabasa, professor at the Departament d'Informàtica.

Member 2: Jaume Segura Garcia, professor at the Departament d'Informàtica.

Member 3: Asuncion Edith Navarro Anton, professor at the Departament d'Enginyeria Electrònica.

Secretary: Pedro Morillo Tena, professor at the Departament d'Informàtica.

For communication and any problems that may arise, the evaluation committee will be based at the Departament d'Informàtica, Escola Tècnica Superior d'Enginyeria (ETSE) of the University of Valencia.



Project: "Optimizando los bioinsecticidas basados en *Bacillus thuringiensis* para el control de especies europeas de spodoptera y combatir la amenaza de *Spodoptera frugiperda* en España. CPI-23-076". Funded by the State Research Agency -AEI-, Ministry of Science and Innovation and by the European Union through the European Regional Development Fund -FEDER-.

Public offer of employment for a senior PhD researcher position.

## 1. General conditions of the position offered

### 1.1. Job title and classification:

Senior PhD researcher.

Group: A, subgroup. A1

### 1.2. Working hours: 37 hours per week.

1.3. Provision of the grant: the purpose of this grant will be to fund the salary, among other items. The monthly gross salary, full-time, will be 3,055.04 euros (12 payments).

### 1.4. Functions and tasks to be carried out:

- Management of *Bacillus thuringiensis* strains and characterization.
- Management of the corresponding database.
- Sequencing of Bt insecticidal genes.
- Preparation of Cry proteins from *Bacillus thuringiensis*.
- Management of insect colonies.
- Labeling of Bt proteins with radioactive iodine.
- Study of the mode of insecticidal action.

### 1.5. Purpose and duration: characterization of insecticidal proteins in Bt strains.

The contract will be determined by the duration of the project and budget availability.

### 1.6 Requirements

1.6.1. Qualifications: PhD in Biological Sciences, or equivalent qualification;

## 2. Scale

2.1. Scientific Production (up to 40 points): thesis supervision, publication of scientific articles, books, book chapters and monographs and presentation of work in scientific meetings will be evaluated according to the Scale for the evaluation of the current Annual Research Report at the time of the publication of the call.

2.2. Preferential merits related to the purpose of the contract (up to 20 points): the Tribunal may agree to conduct an interview in order to better specify the evaluation of preferential merits.

Experience in:

- Label proteins with iodine 125.
- Maintenance of insects and bioassays.
- Work with *Bacillus thuringiensis*.
- Mode of action of insecticidal proteins.

### 2.3. Participation in competitive research projects (up to 15 points):

2.3.1. For each year of certified participation as a full-time team member of research projects in competitive calls of the National R&D Plan or Autonomous Programmes, 3 points will be assigned

2.3.2. For each year of certified participation as a team member of European research projects, 5 points will be assigned





2.4. Participation in knowledge transfer activities (up to 15 points):

2.4.1. For each year of certified participation as a full-time team member of contracts and agreements to carry out research projects, 3 points will be assigned. Services, consulting and training activities are excluded from this scale.

2.4.2. For appearing as co-inventor/co-author of patents, utility models or other types of industrial or intellectual property, 5 points will be assigned

2.5. Postdoctoral stays at universities and research centres other than the centre where the doctoral thesis was obtained (up to 10 points):

2.5.1. For each certified year of stays at other universities and research centres funded by competitive calls of the European Framework Programme, National R&D Plan or Autonomous Programmes, 5 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

2.5.2. For each certified year of stays at other universities and research centres without competitive funding, 2 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

3. Evaluation committee members

President: Juan Ferre Manzanero, professor at the Departament de Genètica.

Member 1: Baltasar Escriche Soler, professor at the Departament de Genètica.

Member 2: Rodolfo Gozalo Gutierrez, professor at the Departament de Botànica i Geologia.

Member 3: Ester Carbo Valverde, professor at the Departament de Biologia Vegetal.

Secretary: Maria Isabel Fariña Gomez, professor at the Departament de Biologia Cel·lular, Biologia Funcional i Antropologia Física.

4. Alternate evaluation committee

President: Ismael Mingarro Muñoz, professor at the Departament de Bioquímica i Biologia Molecular.

Member 1: Maria Cristina Crava, researcher at the Institut Universitari de Biotecnologia i Biomedicina.

Member 2: Jesus Muñoz Bertomeu, professor at the Departament de Biologia Vegetal.

Member 3: Salvador Herrero Sendra, professor at the Departament de Genètica.

Secretary: Carolina Rausell Segarra, professor at the Departament de Genètica.

For communication and any problems that may arise, the evaluation committee will be based at the Institut Universitari de Biotecnologia i Biomedicina (BIOTECMED), of the University of Valencia.

ANNEX III

Project: "Estabilidad estructural y reactividad de fases carbonato densas en distintos entornos químicos y a alta temperatura (DENSECARBON). CPI-23-082". (CIAICO/2021/241). Grants to consolidated research groups of the Conselleria of



Innovation, Universities, Science and Digital Society, convened by Resolution of September 14, 2021, for the 2022 financial year.

Public offer of employment for a junior PhD researcher position.

1. General conditions of the position offered

1.1. Job title and classification:

Junior PhD researcher.

Group: A, subgroup. A1

1.2. Working hours: 37 hours per week.

1.3. Provision of the grant: the purpose of this grant will be to fund the salary, among other items. The monthly gross salary, full-time, will be 2,323.23 euros (12 payments).

1.4. Functions and tasks to be carried out:

- Experimentally study the phase relationships in different carbonates and the adsorption of CO<sub>2</sub> in silica zeolites under high pressure and high temperature conditions.

- Use of diamond anvil cells, resistive and laser heating systems, Raman and IR spectroscopies and synchrotron X-ray diffraction techniques.

- Carrying out specific experiments in large facilities such as the ALBA and DIAMOND synchrotrons.

1.5. Purpose and duration: in situ characterization of carbonate minerals under extreme conditions of pressure and temperatures.

The contract will be determined by the duration of the project and budget availability.

1.6 Requirements

1.6.1. Qualifications: PhD in Physics, or in Materials Sciences, or in Earth Sciences, or equivalent qualification;

The qualification must have been obtained a maximum of 4 years prior to the publication of the call; the date when the PhD was awarded will be understood as the date of reading and passing the doctoral thesis.

2. Scale

2.1. Scientific Production (up to 40 points): thesis supervision, publication of scientific articles, books, book chapters and monographs and presentation of work in scientific meetings will be evaluated according to the Scale for the evaluation of the current Annual Research Report at the time of the publication of the call.

2.2. Preferential merits related to the purpose of the contract (up to 20 points): the Tribunal may agree to conduct an interview in order to better specify the evaluation of preferential merits.

Experience in:

- High pressure techniques (diamond cells).

- High temperature techniques.

- X-ray diffraction (experiments and analysis).

- Large synchrotron radiation facilities.

- Spectroscopic techniques (Raman and Infrared).

- Mineralogy and phase transitions, preferably in carbonates.

- Writing scientific articles.

2.3. Participation in competitive research projects (up to 15 points):



2.3.1. For each year of certified participation as a full-time team member of research projects in competitive calls of the National R&D Plan or Autonomous Programmes, 3 points will be assigned

2.3.2. For each year of certified participation as a team member of European research projects, 5 points will be assigned

2.4. Participation in knowledge transfer activities (up to 15 points):

2.4.1. For each year of certified participation as a full-time team member of contracts and agreements to carry out research projects, 3 points will be assigned. Services, consulting and training activities are excluded from this scale.

2.4.2. For appearing as co-inventor/co-author of patents, utility models or other types of industrial or intellectual property, 5 points will be assigned

2.5. Postdoctoral stays at universities and research centres other than the centre where the doctoral thesis was obtained (up to 10 points):

2.5.1. For each certified year of stays at other universities and research centres funded by competitive calls of the European Framework Programme, National R&D Plan or Autonomous Programmes, 5 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

2.5.2. For each certified year of stays at other universities and research centres without competitive funding, 2 points will be assigned. The stays must have a minimum duration of 30 consecutive days.

### 3. Evaluation committee members

President: Juan Pascual Martinez Pastor, professor at the Departament de Física Aplicada i Electromagnetisme.

Member 1: David Santamaria Perez, professor at the Departament de Física Aplicada i Electromagnetisme.

Member 2: Oscar Manuel Vives Garcia, professor at the Departament de Física Teòrica.

Member 3: M. Victoria Castillo Gimenez, professor at the Departament de Física Atòmica, Molecular i Nuclear.

Secretary: M<sup>a</sup> Carmen Martinez Tomas, professor at the Departament de Física Aplicada i Electromagnetisme.

### 4. Alternate evaluation committee

President: M. Sonia Murcia Mascaros, professor at the Departament de Química Inorgànica.

Member 1: Raquel Chulia Jordan, professor at the Departament de Didàctica de les Ciències Experimentals i Socials.

Member 2: Vicente Muñoz Sanjose, professor at the Departament de Física Aplicada i Electromagnetisme.

Member 3: Domingo Martinez Garcia, professor at the Departament de Física Aplicada i Electromagnetisme.

Secretary: Gabriela Alejandra Barenboim Szuchman, professor at the Departament de Física Teòrica.



For communication and any problems that may arise, the evaluation committee will be based at the Institut Universitari de Ciència dels Materials (ICMUV), of the University of Valencia.

## ANNEX IV

Project: "Polaritónica bidimensional con fibras multinúcleo. CPI-23-091". Co-financed by the GVA and the "European Union - Next Generation EU" - Recovery, Transformation and Resilience Plan, and by the Ministry of Science and Innovation.

Public offer of employment for a graduate researcher position

### 1. General conditions of the position offered

#### 1.1. Job title and classification:

Graduate Researcher.

Group: A, subgroup. A1

1.2. Working hours: 35 hours per week.

1.3. Provision of the grant: the purpose of this grant will be to fund the salary, among other items. The monthly gross salary, full-time, will be 1.603,10 euros (12 payments).

1.4. Functions and tasks to be carried out:

- Simulation of light-matter interaction problems in a strong interaction regime.
- Geometric and topological analysis of the interaction between polaritons.
- Programming of matrix transfer methods and master equation in 2D and 3D.
- Programming and automation of instrumentation and experimental equipment in polaritonics.
- Design and development of programmable interfaces between theoretical models and experimental data.
- Automated quantitative analysis of experimental data.
- Collaboration with the IUMPA (Polytechnic University of Valencia) for the implementation of the most sophisticated theoretical models.

1.5. Purpose and duration: simulation and modeling of exciton polaritons in open 2D optical cavities.

The contract will be determined by the duration of the project and budget availability.

#### 1.6 Requirements

1.6.1. Qualifications: Degree in Physics or in Mathematics, or equivalent qualification;

According to Article 9 of the Regulations for UV Research Staff, once the PhD has been awarded, the contract will be terminated within 30 days from the date when the said qualification is awarded.

1.6.2. Master's Degree in Physics, or in Mathematics, or equivalent qualification.

### 2 Scale

#### 2.1. Preferred merits

2.1.1 The average mark of the academic transcript in the studies of *licenciaturas* (former Spanish 5-year degrees), architecture, engineering, undergraduate degrees, *diplomaturas* (former Spanish 3-year degree), technical architecture or technical engineering, on a scale of 0 to 10, calculated in accordance with Royal Decree 1125/2003, of 5 September, which



establishes the European system of credits and the qualification system for official degree programmes, regarding the total credits evaluated in the first and second cycle.

2.1.2. Collaboration Grant from the Ministry of Education: 0.05 points

2.1.3 Extraordinary Award in a *diplomatura*, *licenciatura*, undergraduate degree or master's degree: a single value of 0.25 points will be assigned for obtaining any of these awards.

2.1.4 Scientific publications related to the contract objective (up to a maximum of 1.70 points):

2.1.4.1 For each publication in a journal listed in the Citation Index, or, in the case of Social Sciences and Humanities, in a journal deemed equivalent by the research committee: 0.5 points

2.1.4.2 For each publication in scientific journals not listed in the previous point: 0.25 points

2.1.4.3 For each participation in congresses or other national or international scientific gatherings with a paper, presentation or poster: 0.05 points

2.2 Other preferred merits related to the contract objective (up to a maximum of 3 points).

- To have taken courses on stochastic equations in undergraduate and/or master's degrees.

- Experience and practical knowledge in programming languages such as COMSOL, Python, Matlab, Mathematica, R and C++.

- Training and scientific experience on systems with topological properties of condensed matter or photonics (vortices, orbital angular momentum, etc).

- Training and scientific experience in the field of excitons-polaritons or similar (for example, Bose-Einstein condensates, Rydberg atoms, quantum dots, and in general in condensed matter).

- Experience in web management integrated with Python.

- Experience in automation and machine learning

The committee may agree to conduct an interview in order to better determine the value of the preferred merits.

### 3. Evaluation committee members

President: Juan Pascual Martinez Pastor, professor at the Departament de Física Aplicada i Electromagnetisme.

Member 1: Guillermo Muñoz Matutano, researcher at the Institut Universitari de Ciència dels Materials.

Member 2: Maria Jesus Hernandez Lucas, professor at the Departament de Física de la Terra i Termodinàmica.

Member 3: M<sup>a</sup> Carmen Martinez Tomas, professor at the Departament de Física Aplicada i Electromagnetisme.

Secretary: Domingo Martinez Garcia, professor at the Departament de Física Aplicada i Electromagnetisme

### 4. Alternate evaluation committee

President: M. Sonia Murcia Mascaros, professor at the Departament de Química Inorgànica.

Member 1: Miguel Angel Garcia March, researcher at the Departament de Matemàtica Aplicada de la Universitat Politècnica de València.



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Member 2: Vicente Muñoz Sanjose, professor at the Departament de Física Aplicada i Electromagnetisme.

Member 3: Pascuala Garcia Martinez, professor at the Departament d'Òptica i Optometria i Ciències de la Visió.

Secretary: Miguel Angel Aloy Toras, professor at the Departament d'Astronomia i Astrofísica.

For communication and any problems that may arise, the evaluation committee will be based at the Institut Universitari de Ciència dels Materials (ICMUV) of the University of Valencia.