RESOLUTION of 15th of March of 2024, 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 50, pertaining to article 3.2 of Organic Law 2/2023, of March 22, of the University System, 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 89 of Organic Law 2/2023, of March 22 of the University System, this selective process 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 of the University System, 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 is 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 link: https://links.uv.es/eadmin/ticketing_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

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 collated at this point in the procedure. A responsible 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/GOo6oAT

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, 15th of March of 2024. The rector, by delegation (DOGV 30/05/2022), the Manager: Juan Vicente Climent Espí.

ANNEX I

Project: «Artificial intelligence and machine learning for enhanced representation of processes and extremes in earth system models (AI4PEX). CPI-23-782».

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:

- Development of causal inference and explainability algorithms for Earth and Climate observation.

- Publication of articles.

- Code generation.

- Monitoring of PhD students.

1.5. Purpose and duration: study of advanced methods of causal inference and explainability for Earth and Climate observation.

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

1.6. Requirements

1.6.1. Qualifications: PhD in Computer Science (Artificial Intelligence), 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.

- Master´s in Mathematics.

- Signal processing and time series.

- Knowledge of advanced statistics and Machine learning (learn statistical analysis). Causality.

- Programming with R, Java, JavaScript, Fortran, Python, FIJI/ImageJ, RStudio, LaTeX, Git .

- Writing scientific texts, demonstrable skill in LaTeX.

- International publications.

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: Jose Antonio Sobrino Rodriguez , professor at the Departament de Física de la Terra i Termodinàmica.

Member 1: Gustau Camps Valls , professor at the Departament d'Enginyeria Electrònica.

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

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

Secretary: Silvia Casans Berga , professor at the Departament d'Enginyeria Electrònica

4. Alternate evaluation committee

President: : Juan Carlos Jimenez Muñoz, professor at the Departament de Física de la Terra i Termodinàmica .

Member 1: Jordi Muñoz Mari, professor at the Departament d'Enginyeria Electrònica.

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

Member 3: Isabel Cordero Carrion, professor at the Departament de Matemàtiques .

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

For communication and any problems that may arise, the evaluation committee will be based at the ERI Laboratori de Processament d'Images (IPL), of the University of Valencia.

ANNEX II

Project: "Artificial intelligence and machine learning for enhanced representation of processes and extremes in earth system models (AI4PEX). CPI-23-783".

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:
- Development of biophysical parameter estimation algorithms.
- Parameterization of climate models.
- Estimation of carbon and energy fluxes.
- Publication of articles.
- Code generation.
- Monitoring of PhD students.
1.5. Purpose and duration: development of algorithms for estimation of biophysical parameters, parameterization of climate models, estimation of carbon and energy fluxes
    The contract will be determined by the duration of the project and budget availability.
1.6. Requirements
1.6.1. Qualifications: PhD in Physics (Remote Sensing), 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.
    - Knowledge of advanced statistics and machine learning.
    - Classification, regression, time series analysis, gap filling.
    - Experience in estimating GPP, plant functional traits, water stress, FAPAR, LAI, fluorescence.
    - Knowledge of carbon cycles, ecosystems, dynamics of the vegetation.
    - Experience in satellite data processing, especially MODIS, S2 and Landsat.
    - Experience in cloud data processing, Google Earth Engine platform.
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: Jose Antonio Sobrino Rodriguez , professor at the Departament de Física de la Terra i Termodinàmica.

Member 1: Gustau Camps Valls , professor at the Departament d'Enginyeria Electrònica.

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

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

Secretary: Silvia Casans Berga , professor at the Departament d'Enginyeria Electrònica

4. Alternate evaluation committee

President: : Juan Carlos Jimenez Muñoz, professor at the Departament de Física de la Terra i Termodinàmica .

Member 1: Jordi Muñoz Mari, professor at the Departament d'Enginyeria Electrònica.

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

Member 3: Isabel Cordero Carrion, professor at the Departament de Matemàtiques .

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

For communication and any problems that may arise, the evaluation committee will be based at the ERI Laboratori de Processament d'Images (IPL), of the University of Valencia.

ANNEX III

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: 20 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, part-time, will be 916,06 euros (12 payments).
1.4. Functions and tasks to be carried out:
- Active participation in multidisciplinary team meetings to learn about information sources, recommend management tools and analyze user.interface requirements of the web thesaurus.
- Analysis and selection of cooperative thesaurus creation tools.
- Learn different computer formats to implement a thesaurus (SKOS, TTL, etc.)
- Development of systems for processing digital thesaurus implementation formats.
- Development of a web application to view and search terms from a thesaurus on the Linux operating system.
- Development of a Rest API to access thesaurus content from external applications.
- Configure the system to guarantee adequate access security, both at the user interface level and access to the system by external applications.
1.5. Purpose and duration: processing digital files to develop a web thesaurus.
The contract will be determined by the duration of the project and budget availability.
1.6. Requirements
1.6.1. Qualifications: Degree in Telematics Engineering, 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.

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).

- Certificate of knowledge in Network Security and Automation. (Cisco CCNAv7 Enterprise, Networking, Security and Automation Certified preferred).

- Certificate of knowledge in Machine Learning.

- Experience in Web development with Full Stack technologies and in teamwork and GIT repository management.

Knowledge of:

- Artificial Intelligence, Machine Learning and Deep Learning, and their application in image processing techniques.

- C++, Java, JavaScript, Python, PHP HTML/CSS

- Oracle and MySQL database management.

- Security management and network configuration.

- Administration and maintenance of Linux systems.

- Knowledge of the YOLO deep learning technique and the GoogleColab execution and development environment.

- Obtaining academic or research awards related to the use of Deep Learning and/or image processing techniques.

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

3. Evaluation committee members

President: Sergi Domenech Garcia, professor at the Departament d'Història de l'Art.

Member 1: Maria Luisa Vazquez de Agredos Pascual, professor at the Departament d'Història de l'Art.

Member 2: Amadeo Serra Desfilis, professor at the Departament d'Història de l'Art.

Member 3: Juan Vicente Garcia Marsilla, professor at the Departament d'Història Medieval i Ciències i Tècniques Historiogràfiques.

Secretary: Josepa Maria Cortes Escriva, professor at the Departament d'Història Medieval i Ciències i Tècniques Historiogràfiques.

4. Alternate evaluation committee

President: Angeles Marti Bonafe, professor at the Departament d'Història de l'Art.

Member 1: Maria Cristina Vidal Lorenzo, professor at the Departament d'Història de l'Art.

Member 2: Yolanda Carrion Marco, professor at the Departament de Prehistòria, Arqueologia i Història Antiga.

Member 3: Miquel Requena Jimenez, professor at the Departament de Prehistòria, Arqueologia i Història Antiga.

Secretary: Jorge A. Catala Sanz, professor at the Departament d'Història Moderna i Contemporània.

For communication and any problems that may arise, the evaluation committee will be based at the Departement d'Història de l'Art de la Facultat de Geografía i Història of the University of Valencia.