



RECTORAL RESOLUTION ANNOUNCING THE 2023 CALL FOR PRE-DOCTORAL CONTRACTS OF THE UNIVERSITY OF VALLADOLID CO-FINANCED BY THE BANK OF SANTANDER.

The University of Valladolid is aware that research plays a crucial role in society by generating, applying and sharing new knowledge, which contributes to the advancement of society, the economy and the quality of life in general.

With the aim of training people who can carry out quality research that can address contemporary challenges and create a more promising and sustainable future, the University of Valladolid offers a wide range of doctoral studies in different branches of knowledge.

The main objective of this call is to increase the quantity and quality of new PhDs, facilitating and promoting the completion of their doctoral theses within the framework of the best research projects. It is also intended to provide an incentive to obtain a doctorate during the third year of the contract, financing, in this case, a postdoctoral orientation period (POP), the specific objective of which is the improvement by doctoral students of the knowledge acquired during the completion of their doctoral theses and the strengthening of their academic career.

The combination of an applicant with good academic preparation who faces a quality doctoral training project within a research unit with accredited training capacity will undoubtedly ensure the future availability of PhDs in the different academic disciplines that will allow the University to have well-trained people for their possible incorporation into its teaching and research staff.

The doctorate is a complex learning process that aims to train quality researchers, prepared to face a competitive academic career, with the best guarantees of success. To this end, the convergence of the best applicants with the various research groups should be favored. To this end, the call establishes a system of requirements for the person who will be responsible for the contract and for the training and merit assessment process of the applicant.

The University of Valladolid has recently achieved the HRS4R seal. The *Human Resources Strategy for Researchers* (HRS4R) is a European Union strategy that aims to make research an attractive career, providing research personnel with the same rights and obligations in any of the EU countries where they work. The implementation of the



The strategy of the University of Valladolid is a tool to provide a suitable environment for research personnel, making the institution a recommended destination for international researchers. The European Charter for Researchers is based on the *roles, responsibilities and rights of the research staff and the employer*. The Charter aims to ensure that the relationship between the two parties contributes positively to the process of creating, transferring and sharing knowledge and to the professional development of research staff. The Code of Conduct for the Recruitment of Researchers aims to improve recruitment and ensure that selection processes are fair and transparent.

This call for pre-doctoral contracts is part of the University of Valladolid's own research program. Its purpose is to promote the specialized training of people who wish to orient their professional activity towards teaching and research.

For the reasons stated above and after negotiation and agreement in the General Negotiating Board of the University of Valladolid, I have resolved to publish the following call for applications.

BASIS

First. Object

1.- The purpose of this call is to offer 4-year employment contracts for doctoral training, under the modality of pre-doctoral contract, in accordance with the provisions of Article 21 of Law 14/2011 on Science, Technology and Innovation, as amended by Law 17/2022, of September 5, which amends Law 14/2011, of June 1 on Science, Innovation and Technology, for the development of research tasks within the scope of a specific and novel project, aimed at the completion of the doctoral thesis in a Department or a University Research Institute of the University of Valladolid (hereinafter UVa), in accordance with the principles of publicity, transparency, objectivity, equality, merit and ability. For those beneficiaries who obtain their doctoral degree before the end of the initial 4-year contract, the employment relationship will be maintained during a period of postdoctoral orientation (POP) for a maximum period of 12 months from the date of reading of the thesis, not exceeding 4 years the sum of the two periods.

2.- 52 positions for pre-doctoral research personnel are announced, of which 7% (3 positions) are reserved for students with a disability equal to or greater than 33%.



percent. In the event that these positions are not filled, they will be incorporated into the ordinary modality.

Of the total number of positions offered, four (R&C modality) will be linked to Ramón y Cajal researchers from the last call who have joined the University of Valladolid and two more to Ramón y Cajal researchers from previous calls who did not obtain a predoctoral contract in the 2022 call. Six positions (SENUVA and MZAMBRANO modality) will be linked to the contracts of Senior postdoctoral researchers (call 2019) of the University of Valladolid and María Zambrano who did not obtain a predoctoral contract in the previous call. Of the remaining 40 places, 20 places will be reserved for the project modality and another 20 for the ordinary modality. The 40 places in these two modalities will be distributed among the five main areas of knowledge: Arts and Humanities, Sciences, Health Sciences, Social and Legal Sciences, Engineering and Architecture. The distribution of places among the five major areas of knowledge will be carried out as described in the tenth base, section 6 of this call. The assignment of the major areas of knowledge will be made on the basis of the Doctoral Program selected in the application, following the distribution described in <http://escueladoctorado.uva.es/opencms/oferta/index.html>.

All those applications in which the person directing the research work is part of a research project funded by the AEI (granted or included in provisional resolution) that does not have predoctoral researchers contracted from the research personnel training program (FPI), or predoctoral researcher contract obtained in any of the two calls for UVa Predoctoral Contracts immediately prior to this call may apply to the project modality. The rest of the applications will compete in the ordinary modality.

4. Each of the pre-doctoral contracts will have a mobility grant for research stays or conference attendance of 3000 €. This amount must be executed before the end of the contract or the defense of the thesis, whichever comes first. The beneficiaries of this call may participate in the mobility grants of the Vice-Rectorate for Research of the UVa in the modality of conference attendance, although additional financial resources will only be allocated once they have executed the 3000 €.

5.- Each applicant may only submit one application. In the event that there are two applications from the same person, it will be considered that he/she chooses the one submitted last according to the date and time of registration of entry at this University, so that any application submitted earlier will be null and void.

6.- The research projects, to whose execution this call contributes, shall comply with the Code of Good Practices in Research, approved by Agreement of the Governing Council on January 31, 2013.



The recruitment of pre-doctoral research personnel shall be carried out in accordance with the principles established in the Recommendation of the European Commission of March 11, 2005, regarding the European Charter and Code of Conduct for the Recruitment of Research Personnel.

Second. Requirements of the applicants

1.- Without prejudice to the general requirements established in *R.D. Legislative 5/2015, of October 30, which approves the revised text of the Law of the Basic Statute of the Public Employee (EBEP)* on access to public employment, this call is intended for the recruitment of university graduates who on the date of the end of the deadline for submission of applications meet the following requirements:

a.- Be enrolled or admitted in an official doctoral program of the University of Valladolid for the academic year 2023/2024. Applicants may also be all those persons who, at the time of submission of the application, not being enrolled or admitted in a doctoral program, are in a position to be enrolled or admitted on the date on which the contract is formalized.

b.- Those who already hold a doctorate degree from any Spanish or foreign university are not eligible to apply.

c.- In any case, at the start date of the contract, it will be an indispensable requirement to be enrolled in a full-time doctoral program at UVa. This requirement must be maintained throughout the duration of the pre-doctoral contract.

Third. Funding

1.- The contracts of this call will be financed from the budget application 180113-463A.2.01 of the year 2023 and from the corresponding budget application of the UVa budget for the following years.

2.- The total amount of this call (salary + employer's contribution + indemnity), for its 4 annuities amounts to 5,336,428.76 €.

3.- The aid is subject to personal income tax, so the withholding system established in the current regulations must be applied.

4. The mobility aid for an amount of 156,000 € will be financed from the application 180113 463A.2.06 of the year 2024 and from the corresponding budgetary application of the UVa Budget for the following years. This aid will be paid in accordance with the amounts of RD 462/2002.



5.- This call is subject to the suspensive condition of the existence of adequate and sufficient credit to finance the obligations derived from the concession in the corresponding fiscal years. Said credit may be increased if circumstances so require.

Four. Characteristics of the contract

1.- The pre-doctoral contract, in accordance with its specific regulations, shall have the characteristics described below, for the entire period of its duration:

- a) The purpose of the predoctoral contract will be the simultaneous performance by the predoctoral research personnel in training, on the one hand, of research tasks in a specific and novel project and, on the other hand, of the set of training activities leading to the acquisition of the competences and skills necessary to obtain the official university degree of Doctor, without being required to perform any other activity that detracts from the research and training purpose of the contract. The research activities will be developed in a Center and a Department or University Research Institute of the UVa, located in any of its four campuses. This personnel will be considered as pre-doctoral research personnel in training.
- b) The contract shall be concluded in writing between the research personnel in training, in his or her condition as an employee, and UVa in its condition as employer.
- c) The contract will be formalized as a pre-doctoral contract, as provided for in Law 14/2011, of June 1, on Science, Technology and Innovation (BOE of June 2), as amended by Law 17/2022, of September 5, with full-time dedication. In general, the duration of the contract will be four years. However, when the contract is made with a person with a disability, it may reach a maximum duration of six years, taking into account the characteristics of the research activity and the degree of limitations in the activity.
- d) In the event that, prior to the start date of the pre-doctoral contract, the contracted person had received other public or private grants for pre-doctoral training, within the framework of Law 14/2011, as amended by Law 17/2022, of September 5, the duration of the grant will be reduced by the period during which he/she was contracted. The reduction of the aid period will be effective at the beginning of the first month of the contract. The beneficiaries must inform the instructing body of this circumstance.



- e) Gross remuneration shall be calculated in accordance with the provisions of art 7 of Royal Decree 103/2019, of March 1, which approves the *statute of pre-doctoral research personnel in training*. Without prejudice to the application of any agreement or legal or conventional rule that improves these conditions. Extraordinary payments shall be paid pro rata on a monthly basis in such remuneration. The amount corresponding to each monthly payment will be paid by the UVa to the beneficiaries, in accounts opened at Banco Santander in their name.

In accordance with article 21 of Law 14/2011, of June 1, on Science, Technology and Innovation, modified by Law 17/2022, of September 5, when the research personnel in training obtains the title of doctor before the end of the 4-year contract period, this will continue, with the purpose of postdoctoral orientation, for a maximum period of 12 months from the date of defense of the thesis, without the total duration of the predoctoral contract exceeding 4 years, or six years in the case of disability. For these purposes, the doctoral degree is considered to have been obtained on the date of the defense and approval of the doctoral thesis. Within 15 days of the reading of the doctoral thesis, the interested party shall provide a work program and activities for this period.

3.- The interruption of the contract will not entail the extension of the duration of the contract, except when the interruption is due to situations of temporary disability for a period of at least two consecutive months and the rest of those contemplated in art. 21.c) of Law 14/2011, of June 1, on Science, Technology and Innovation (BOE of June 2), as amended by Law 17/2022, of September 5.

4. The aids regulated by the present order will be incompatible with other contracts or aids financed with public or private funds whose object is also research and, with the remuneration of any activity carried out in the same working hours.

5. However, the aid will be compatible with any other aid received:

- a) For attendance to congresses and scientific meetings.
- b) For short stays and temporary transfers, granted by public or private, national or international organizations, as long as they are enjoyed during the pre-doctoral contract phase.

6. The beneficiaries must inform UVa of any other aid, subsidies, income or resources that finance the subsidized activities.

7. In any case, the center where the work is carried out must be integrated in one of the campuses of the University of Valladolid.



Fifth. Requirements and obligations of the person directing the research work.

1.- Applicants who are enrolled in a UVa doctoral program at the time of application may only participate in this call with one person as director of the research work. This person will be responsible for the contract, will meet the requirements specified in point 4 below, and will have been appointed thesis director/director by the academic committee of the doctoral program in accordance with art. 11.3 of RD 99/2011, of January 28, modified by RD 576/2023, of July 4, which regulates the official teaching of doctoral studies.

Those who are not enrolled in the doctoral program at UVa at the time of submitting their application must propose a person to direct their research work and who meets the requirements established in point 4 and those of article 11.4 of the aforementioned RD 99/2011, of January 28, to be appointed by the corresponding academic committee of the doctoral program, if applicable.

3.- Incidents related to the director of the research work, except for the evaluation of the requirements established in this fourth base, will be resolved in accordance with the regulations of the Doctoral School and with the provisions of this call.

4.- In the project and ordinary modalities, the director of the research work must meet the following requirements:

- a) To be a full time PDI doctoral candidate, with an employment or civil servant relationship with the UVa or with one of the public research organizations that maintain a stable and valid collaboration agreement with the UVa: i) through the UVa's joint center [Institute of Biology and Molecular Genetics (IBGM)]; ii) through the Center for Biomedical Research Network (CIBER).
- b) To have sexennia alive. In case of having 6 sexennia, it will be considered to have sexennia alive.
- c) In the case of a contractual relationship with the UVa, if the duration of the contract does not exceed the maximum period of the predoctoral contract, established at a maximum of forty-eight months, added to those of the resolution of this call, it will be mandatory to appoint a co-director who is a permanent PDI of the UVa. Co-director can only be appointed in this case and must meet the same requirements as the director.



- d) Those who, at the closing date of this call, are directors of a person with a UVa predoctoral contract from the two calls immediately prior to this one (2021 and 2022) cannot be directors of a research project.
- e) The above conditions cannot be remedied.

In the R&C, BEAGAL, MZambrano and SENUVA modalities, the researchers of the Ramón y Cajal, Beatriz Galindo, María Zambrano and Postdoc Senior programs of the UVa (listed in ANNEX A), will propose the line or lines of the thesis to be directed. The director of the thesis will be the Ramón y Cajal researcher, Beatriz Galindo, María Zambrano and UVa Senior Postdoc. Only the candidate with the highest score for each of the Ramón y Cajal, Beatriz Galindo, María Zambrano and UVa Senior Postdoc researchers, who meets the minimum grade requirement, will be selected. Researchers from the Ramón y Cajal, Beatriz Galindo, María Zambrano and Postdoc Senior UVa programs cannot participate in the ordinary modality in this call. Those researchers of these modalities, who have a predoctoral awarded in calls prior to 2021, may participate in the ordinary modality.

6.- For project and ordinary applications, the persons directing the research work may only be proposed to direct one applicant. Failure to comply with this section will result in the exclusion of all affected applications. This exclusion can only be corrected if, within the period established for corrections, the director chooses one of the applications. Failure to do so will result in the definitive exclusion of all affected applications without further action. However, the same person may appear as co-director of several applicants.

Sixth. Linkage of the research work and place of performance.

1.- The original research work to be carried out during the term of the contract must be linked, whenever possible, to a competitive research project, or to a research agreement or contract signed with public entities or private companies, in execution at the closing date of the application submission period and/or in the provisional award phase in the case of competitive projects. In the case of contracts, the minimum amount of the same must be €10,000 (ten thousand euros) of direct costs, VAT excluded.

In the case of the project modality, the contract will be linked to the competitive project financed by the AEI that was used to access this modality and will be incorporated into the project's work team.

In relation to the projects/agreements/contracts referred to in point 1, only those in which the beneficiary is one of the following will be considered:



- a) The University of Valladolid.
- b) The General Foundation of the University of Valladolid.
- c) The Science Park Foundation of the University of Valladolid.
- d) The CSIC within the framework of the IBGM, as a mixed center, as long as it maintains the collaboration agreement in force with the UVa.

4.- In any case, the center where the work is carried out must be integrated in one of the campuses of the University of Valladolid.

Seventh. Call for applications and deadline for submission of applications.

1.- The call for applications will be published in the Official Gazette of Castilla y León, as well as on the UVa Electronic Bulletin Board: <https://sede.UVa.es> (Official Bulletin Board / Research).

The deadline for submitting applications will begin at 9:00 a.m. on the day following the publication of this call in the BOCyL and will end at 2:00 p.m. on October 26, 2023 (local time in both cases).

Eighth. Form of presentation of applications

1.- In view of the technical capacity of the possible persons interested in participating in this call, the application will be formalized through the UVa's Electronic Headquarters, at the address <https://sede.uva.es>. You must access the citizen folder, and after identifying yourself, go to the procedure Call for pre-doctoral contracts of the University of Valladolid. Choose the option "Start procedure (online)", or continue the procedure if it has already been started in previous sessions. The application must be accompanied by the documents indicated in the ninth base of this call.

2.- Preferably, it is necessary to have an electronic signature certificate to identify yourself and access the procedure. After authenticating with the aforementioned electronic signature certificate, you will have access to the procedure. It is important to read the "help instructions", where you can obtain information on the procedure for attaching documents. A maximum of 10 documents may be attached and the space occupation may not exceed 10 MB.

Applicants who do not have an electronic signature may access this procedure by obtaining a user through the Unified Registry of Applicants of the University of Valladolid (RUS) at the following address: ACCESS RUS-UVa. If the applicant is already a student, or a member of the PAS/PDI of the UVa, RUS should not be used. It should also not be used if you have a digital certificate, electronic ID or CI@ve system user.



4.- Applications thus submitted shall produce the same legal effects as those formulated in accordance with Article 16.5 of Law 39/2015, of October 1, of the Common Administrative Procedure of Public Administrations.

5.- Applicants must verify at the electronic headquarters (<https://sede.uva.es>), prior to filling out the documentation, that the computer equipment to be used to electronically register the documentation meets the minimum requirements.

6.- The e-mail address soporte-sede@uva.es will provide assistance in resolving technical issues that may arise during the submission of applications.

A copy of the registered document may be obtained in the same Virtual Office, in the "file consultation" section.

8. Each applicant may only submit one application. In the event that there are several applications from the same person, it will be considered that he/she chooses the one submitted last, according to the date and time of registration of entry at this university, so that any application submitted earlier will be null and void.

9.- When an unforeseen technical incident or a necessary planned action of technical maintenance has prevented the ordinary operation of the UVA's electronic office or the system or application corresponding to the General Electronic Registry, an extension of the unexpired deadlines may be agreed. If the technical incident occurs within the last twenty-four hours of the established deadline, the deadline will be automatically extended by twenty-four working hours, counted from its end. If, once this period has been extended, it is foreseen that the technical incidence may persist beyond those twenty-four working hours, the competent body with respect to each procedure may agree, expressly and with reasons, to extend the period under the terms of Article 32 of Law 39/2015, of October 1. In all cases, both the technical incident occurred or prior notice of planned unavailability and the specific extension of the deadline, with reference to the procedures affected by such extension, must be published in the electronic headquarters.

10.- Parallel to the application in the electronic headquarters of the University of Valladolid, the candidate must register in the "CONVOCATORIA 2023 DE CONTRATOS PREDOCTORALES DE LA UNIVERSIDAD DE VALLADOLID", in the "CONVOCATORIA 2023 DE CONTRATOS PREDOCTORALES DE LA UNIVERSIDAD DE VALLADOLID", in the Banco Santander's scholarship application, at : www.becas-santander.com



Ninth. Content of applications

- 1.- Applications must be accompanied by the following documents:
 - a) Copy of the valid passport (only for foreign citizens not residing in Spanish territory). In the case of Spanish citizens or foreign citizens residing in Spanish territory, the participation in this action will entail the consent so that the instructing body may consult and verify the identity data included in the application, in an irrefutable manner, by means of the Identity Data Verification System, in accordance with the sole article.3 of Royal Decree 522/2006, of April 28th.
 - b) Descriptive report of the original research work to be carried out during the term of the contract, with the approval of the director of the research work, according to the standardized model Form 1. In the event that the figure of the co-director is necessary, in accordance with the provisions of Basis Five, section c), the approval of the co-director of the work will also be required.
 - c) Applicant's academic record, limited to the evaluable merits, in accordance with the standard Form 2 model. The merits reflected in the applicant's academic record must be documented. Publications should preferably be accredited by means of a link to the address of the repository where they are hosted, and only exceptionally, if they are not published electronically, the full text in pdf format may be included. All the merits of the scientific scholar will be included in a single pdf document accompanying Form 2 and may not exceed 8 MB. The file name shall be: academic record_NI.
 - d) Personal academic certification of the studies that give access to the doctorate (bachelor's degree and/or master's degree), taking into account the following circumstances:
 - i. Candidates who have completely completed the studies that give access to the doctorate at the University of Valladolid will not need to present a personal academic certificate, since the managing body will have direct access to their academic record.
 - ii. Candidates who have completed studies that give access to the doctorate in private centers, or other Spanish public centers other than the University of Valladolid, must provide official certification.
 - iii. In the case of studies carried out totally or partially on systems



If the student is a foreign university student, the official academic certification of the issuing center of the degree must be presented, to which the document of equivalence issued by the Ministry of Education and Vocational Training must be added. In order to request the calculation of equivalent average grades for university studies carried out abroad, please contact the following address:

<https://www.universidades.gob.es/equivalencia-de-notas-medias-de-estudios-universitarios-realizados-en-centros-extranjeros/>

iv. Those candidates who are admitted or enrolled in a doctoral program at the University of Valladolid do not need to present the certificates. Participation in this call implies the authorization to the managing body to collect the certificates presented for enrollment in the doctoral program.

e) If applicable, official document certifying disability equal to or greater than 33%.

2.- The submission of the application will entail the authorization of the applicant and his/her director of the research work so that the instructing body may consult, check, obtain or require the information contained in his/her file at the UVa, the CSIC or the CIBER, necessary for his/her identification as a beneficiary and for the evaluation of the merits. The evaluation of the dossier will be made with the documentation validated by the Doctoral School for the pre-registration and enrollment of the candidate, if he/she is already admitted to a doctoral program.

3.- It will not be necessary for the applicant to accredit the requirement of being enrolled or admitted in a doctoral program. The information will be obtained from the institutional application of the UVa. Likewise, it will not be necessary to indicate the organizational unit to which the research director belongs since this information will be obtained ex officio by the administrative services.

4.- The academic record and the descriptive report are considered essential parts of the application and their non-submission during the application period shall be irremediable. In the event that correction, rectification or clarification of such documents is requested, it will not be possible to subsequently update the information contained in said documents or alter the content of the document originally submitted. Only the documentation provided within the application submission period will be taken into account and it will not be possible to provide documents that support new merits not initially declared. The merits claimed that are not supported by documents will not be scored, with the exceptions provided for in paragraphs 2 and 3 above, and their possession must be accredited at the time of the deadline for submission of applications.



5.- The presentation of the application implies the acceptance of the rules of the call and the consent to be notified at the e-mail address indicated therein.

Tenth. Instruction and resolution of the procedure

1.- The competent body for the instruction and management of the procedure will be the Research Support Service of the UVa.

2.- After the deadline for submission of applications, the Vice Chancellor with competence in Research, by delegation of the Rector, will publish on the Electronic Bulletin Board of the UVa the provisional lists of persons admitted and excluded, indicating in the latter case the cause of exclusion.

3.- Both the excluded applicants and those omitted, the latter for not appearing in the lists of those admitted or excluded, will have a period of 10 working days, counted from the day following the day of the aforementioned publication in the Electronic Bulletin Board, to correct the defects that have led to their exclusion or omission. The publication of these lists in the Electronic Bulletin Board of the UVa will serve as notification to the interested parties, for all purposes. Applicants who, within the period indicated, do not remedy the exclusion or argue against the omission produced, justifying their right to be included, will be definitively excluded from the selection process.

4.- Once the period for correction has elapsed, the Vice-Rector with competence in Research, by delegation of the Rector, will make public, on the same UVa Electronic Bulletin Board, the resolution approving the definitive list of persons admitted and excluded. A contentious-administrative appeal may be lodged against this resolution, as a qualified procedural act, within two months, before the Contentious-Administrative Court of Valladolid, or alternatively, an appeal for reconsideration, within one month, before the Rector's Office itself. Both periods will be counted from the day following the publication of the resolution.

5.- Evaluation. The Research Commission of the Governing Council of the UVa, acting as the Selection Committee, is responsible for the study and application of the evaluation criteria, as established in the twelfth base. For this purpose, it will rely on the Advisory Committee, made up of 11 members distributed homogeneously among the 5 main branches of knowledge (APPENDIX C). This Advisory Committee will issue a mandatory report, within a period of one month, prior to the proposed resolution provided for in section 6 of this basis.

6.- Distribution of places. In the first place, the applications that do not reach the minimum of 65% of the maximum score foreseen in the base will be rejected.



The available positions will be assigned among the remaining candidates according to the following procedure:

- a) First phase: for each of the Ramón y Cajal, Beatriz Galindo, María Zambrano and Postdoc Senior UVa researchers indicated in ANNEX A, the candidate with the highest score will be proposed for hiring, as established in the Twelfth base.
- b) Second phase: the candidates with the highest score who have justified the disability requirement will be proposed for hiring until, added to the candidates selected in the first phase who also meet this requirement, the total of the 3 positions reserved for this shift is reached.
- c) Third phase: The candidates selected in the previous phases will be discounted and the project modality positions will be assigned. The contracts in this modality will be distributed among the five major areas in proportion to the remaining applications submitted in each of them. Within each of the major areas, the applications will be ranked in descending order of score and the candidates with the highest scores will be proposed for hiring until the number of contracts for this modality is reached. In all cases, possible ties, if any, will be resolved as specified in the twelfth base, section 4, of this call. If the total number of contracts reserved for this modality is not filled, the unassigned contracts will be incorporated into the ordinary modality.
- d) Fourth phase: The candidates selected in the previous phase will be discounted and the allocation of contracts of the ordinary modality will be made respecting the proportionality between the major areas. The candidates with the highest scores will be proposed for hiring until the number of available contracts is reached. In all cases, possible ties, if any, will be resolved as specified in the twelfth base, section 4, of this call.

7.- The proposed resolution formulated by the Selection Committee will include the scores assigned to each applicant in each of the sections. The scores will be obtained by applying the evaluation criteria specified in this call, within the framework of the provisions of Article 16.2 of Law 14/2011 of June 1, and will be published on the UVa Electronic Bulletin Board. Allegations against the proposed resolution may be submitted to the Rector within 10 working days of its publication on the electronic bulletin board of the UVa. These allegations will be evaluated by the Research Committee, which may request the relevant reports in this regard.



8.- The rectoral resolution of this call for applications will be published on the UVa Electronic Bulletin Board.

9.- The aforementioned rectoral resolution may list the candidates on the waiting list by major areas of knowledge who, following the order of the points obtained, will replace the contracts awarded in the event of resignations or other circumstances. These substitutions will only be possible within four months from the publication of the definitive resolution and after evaluation by the Research Commission. The duration of the aid for the substitutes will be extended for a period of 4 years from the signing of the contract, unless they have enjoyed a previous contract for the same purpose.

10.- The beneficiaries must accept the grant and notify the date of incorporation within 10 days from the publication of the final resolution, submitting the completed form ANNEX 4 through the electronic registry of the UVa. Failure to accept within the deadline will be understood as resignation from the contract. The incorporation to the position must take place within 4 months, counting from the day following the publication of the Resolution of concession, preferably on the 1st of the month. If the incorporation does not take place within the indicated deadlines, it shall be understood as resignation from the contract.

Eleventh. Notifications

1.- Pursuant to the provisions of Article 45 of Law 39/2015, of October 1, of the Common Administrative Procedure of Public Administrations, notifications will be made by publication on the Electronic Notice Board of the UVa, with all the effects of notification practiced.

When filling out the application, the interested parties must indicate an e-mail address where they can be notified of the incidents of the procedure. In such a case, the instructing body may send the interested party a message, via e-mail, informing him/her that this new action has taken place and that he/she may have reliable and detailed knowledge of the same by entering <https://sede.uva.es>.

Twelfth. Evaluation Criteria

1.- For all Modalities. Applications will be evaluated out of 100 points according to the following merit assessment criteria:

- a) Standardized academic record of the applicant: up to a maximum of 80 points.



b) Applicant's academic record: up to a maximum of 20 points. The merits accredited in the standard form available as Form 2 will be evaluated as follows:

	Section	Maximum
1	Extraordinary awards	4,0
2	Other official degrees or specialized training courses	2,5
3	Scholarships obtained for academic merit	4,0
4	Accredited languages	1,5
5	Publications	5,0
6	Stays in research centers and participation in congresses	3,0

- 1) Only extraordinary prizes will be valued for Bachelor's / Bachelor's degrees. / Degree / Master's Degree, required for access to the applicant's doctoral program. The extraordinary award of Bachelor / Diploma / Degree with 2.5 points and the Master with 1.5.
- 2) The following contributions will be valued in this section:
 - a) Official Bachelor's Degree / Diploma / Degree or Master's Degree (other than those required for access to doctoral studies) exclusively in areas scientifically related to the area of reference of the doctorate, at the rate of 1.5 points each.
 - b) Courses of scientific specialization scientifically relevant to the line of research of the Project or for doctoral studies. Each of them will be valued with a maximum of 1 point for a 30-hour course.
- 3) Scholarships obtained exclusively for academic merit, such as collaboration scholarships, will be valued: up to 4.0 points for having obtained international competitive scholarships; up to 2.5 points for having obtained national competitive scholarships; and up to 1.0 point for having obtained local competitive scholarships.
- 4) Languages of scientific interest. Only accreditations in English or in languages of scientific interest in the field of specialization equal to or higher than level B2 will be valued according to the following scale: B2, 0.5 points; C1, 1.0 points and C2, 1.5 points.
- 5) In this section, the following will be assessed:
 - a) Publications in indexed journals. They will be valued according to their impact in the reference area of the project and the order of signature. The maximum per article is 2.5 points for a publication in the first quartile (JCR) and in journals recognized by the CNEAI in the reference area.
 - b) Publications in collective volumes, conference proceedings, etc. Maximum of 1 point for each publication (for a communication in an international congress).



6) Participation in congresses, conferences and scientific meetings (duly justified): up to a maximum of 0.5 points each. Training stays in prestigious centers: up to a maximum of 1.5 points each (attainable for a 3-month stay in a top international center in the field of the project). In all cases, only the activities carried out during the postgraduate period will be valued.

2.- In order to be eligible for contracts under this call, the evaluation obtained may not be less than 65% of the maximum possible evaluation, established at 100 points.

3.- For the R&C, BEAGAL MZambrano and SENUVA modalities.

Each responsible researcher in the modalities R&C, BEAGAL, MZambrano and SENUVA. will issue a reasoned report for each of the candidates who apply for their position, assessing their suitability and previous experience in the subject of the research project to be carried out. The evaluation of this report will be between 0 and 25 points and will be added to the final evaluation of each candidate who has exceeded the percentage established in section 2 of this base in the ordinary evaluation.

4.- Tie-breaking rules.

In case of a tie in the last places, the tie-breaking criterion will be the highest score obtained in each evaluation criterion, taken in the same order in which they are listed. If it persists, it will be awarded to the person of the gender less represented in its list of admitted persons (excluding those who have tied) and in case they are all of the same gender, to the person who first submitted the application, taking as reference the date and time of registration.

Thirteenth. Follow-up

Pursuant to article 11.7 of RD 99/2011 of January 28, modified by RD 576/2023 of July 4, which regulates official doctoral studies, the academic committee of the doctoral program shall annually evaluate the research plan and the activities document together with the reports to be issued by the tutor and the director for this purpose. If the evaluation is not positive, the contract may be terminated in accordance with the applicable labor legislation.

2.- The documentation mentioned in the previous paragraph will be checked in the institutional computer application of doctorate of the UVa from the day following the last day set for the evaluation by the Doctoral School.

Fourteenth. Rights of predoctoral research personnel

1.- The person hired will be attached to the University Research Institute and/or Department of his/her research work director (or



co-director, if applicable), always on a campus of the University of Valladolid. The University Research Institutes and Departments to which the pre-doctoral research personnel in training, hired in accordance with this call, will provide the necessary collaboration and support for the normal development of their research work, in accordance with their availability.

Predocctoral research personnel in training shall have all the rights established in Article 14 of Law 14/2011, of June 1, on Science, Technology and Innovation, as amended by Law 17/2022, of September 5, and in Chapter II of Royal Decree 103/2019, of March 1, approving the *statute of predoctoral research personnel in training*.

3.- Predocctoral research personnel in training may collaborate in teaching tasks without reducing the teaching load of the department assigning the collaboration, up to a maximum of 180 hours during the total extension of the predocctoral contract, and in no case may they exceed 60 hours per year.

4.- The university departments of the UVa in which the predocctoral research personnel in training are integrated will facilitate to such research personnel who request it, in equal opportunities, and to the extent possible within the limits established above, the realization of these collaborations in teaching tasks. The practical exercise of these competences to be acquired will be carried out in undergraduate degrees without, in any case, the beneficiary of the aid can be responsible for or coordinate a subject, or direct TFG, or be part of tribunals or sign minutes. The teaching collaboration will be computed as established in the current UVa staff document.

Fifteenth. Obligations of predoctoral research personnel

1.- The signing of the contract implies the commitment, on the part of the beneficiary, to comply with the conditions set forth in this call, as well as the duties set forth in Article 15 of Law 14/2011, of June 1, on Science, Technology and Innovation, as amended by Law 17/2022, of September 5, and in Chapter II of Royal Decree 103/2019, of March 1, approving the *statute of pre-doctoral research personnel in training*.

2.- Without prejudice to the obligations inherent to their condition of personnel with an employment contract with the UVa, the persons selected within the framework of this call must:

- a) Once the employment contract has been formalized, to join the UVa Center and the UVa Department/University Research Institute of assignment, which will inexcusably be their usual place of work.



- b) To request and obtain the authorization of the Vice Rector in charge of Research for any change referred to the Department or University Research Institute to which it is attached, subject to a report from both Departments or Institutes concerned.
- c) Fulfill the different stages of the training process, the completion of the thesis and participation in research projects in which he/she is involved.
- d) To request prior authorization from the Vice-Rector's Office responsible for Research for any temporary absence from the Department/Institute of assignment related to training and research activities. However, for absences due to attendance to congresses, meetings or scientific conferences, only the authorization of the person in charge of the research and of the Department/Institute of assignment will be required.
- e) Communicate to the managing body (UVa Research Support Service) the date of reading of the doctoral thesis, at least 10 days in advance.

3.- Contracted research personnel are obliged to state in the publications and other results to which the research work may give rise the link to UVa, in accordance with the Resolution of the Rectorate of the University of Valladolid of April 8, 2013, on the standardization of institutional affiliation in all types of publications by personnel linked to the University of Valladolid. Likewise, they must state the financing of Banco Santander. To this end, in the acknowledgements section it should be indicated: <<"Researcher's name" has been funded by the call for UVa 2023 predoctoral contracts, co-funded by Banco Santander>>.

Sixteenth. Term of resolution

The time elapsed between the publication and the resolution of the call for applications may not exceed six months from the beginning of the application period of this call, except for the concurrence of the legal assumptions of suspension or extension of the period due to contestation or other justifiable causes appreciated by the Rector. The aforementioned period may be suspended for the time between the request for the evaluation to the Advisory Committee and the receipt of the report; in this case, the interested parties will be notified as provided by law.



Seventeenth. Legal Regime

The call for applications shall be governed by the following regulations:

- Royal Decree 99/2011, of January 28, amended by RD 576/2023, of July 4, which regulates official doctoral studies (BOE 10/02/2011).
- Resolution of May 9, 2022, of the Rectorate of the University of Valladolid, delegating certain powers to various unipersonal bodies of this university, and adopting other organizational measures (BOCYL 18/05/2022).
- Statutes of the University of Valladolid, approved according to agreement 111/2020, of December 30, of the Junta de Castilla y León, (BOCYL of December 31, 2020).
- Law 39/2015, of October 1, on the Common Administrative Procedure of Public Administrations.
- Law 40/3015, of October 1, 2015, on the Legal Regime of the Public Sector.
- Organic Law 2/2023, of March 22, of the University System (B.O.E. of March 23, 2023).
- Law 14/2011, of June 1, of June 1, on Science, Technology and Innovation, as amended by Law 17/2022, of September 5.
- *R.D. Legislative 5/2015, of October 30, which approves the revised text of the Law of the Basic Statute of the Public Employee.*
- Organic Law 4/2000, of January 11, 2000, on the rights and freedoms of foreigners in Spain and their social situation (BOE of January 12, 2000).
- Royal Legislative Decree 2/2015, of October 23, 2015, approving the revised text of the Workers' Statute Law (BOE of October 24, 2015).
- Royal Decree 103/2019, of March 1, 2009, approving the Statute of pre-doctoral research personnel in training.
- The Regulations for the contracting of research personnel and collaborating personnel in research tasks, financed on a finalist basis from research projects, contracts, agreements or conventions, approved by the Governing Council Agreement of January 31, 2013, shall be applicable on a supplementary basis.



Eighteenth. Data protection

1.- The personal data resulting from this call will be treated confidentially and will be incorporated into processing files owned by the University of Valladolid, for the purpose of resolving the call. They will be kept for the time necessary to fulfill this purpose and the data of the contracts awarded will be kept for the purposes of certification and statistics as appropriate.

2.- The information document on the protection of personal data is included as ANNEX D to this call for proposals.

Nineteenth. Gender issue

In coherence with the value of gender equality assumed by the University, all the denominations that in this call resolution are made in masculine gender, when they have not been substituted by generic terms, will be understood to be made indistinctly in feminine gender.

Twelfth. Resources

A contentious-administrative appeal may be filed against this call, which is final and exhausts the administrative channels, within two months from the day following its publication, before the contentious-administrative court of Valladolid. Alternatively, an appeal for reconsideration may be filed before the Rectorate of the University of Valladolid, within one month from the day following publication. In this case, the aforementioned contentious-administrative appeal may not be lodged until an express decision has been taken or the appeal for reconsideration has been presumptively rejected.

Valladolid, September 28, 2023 THE
RECTOR,
(By delegation, RR. of 09/05/2022, BOCyL of 18/05/2022, modified by
RR of 11/07/2022, BOCyL of 18/07/2022)
Vice Rector for Research S.D.
Enrique Baeyens Lázaro



ANNEX A

LIST OF "RAMÓN Y CAJAL", "MARÍA ZAMBRANO" AND "UVa SENIOR RESEARCHERS WITH ASSIGNED PREDOCTORAL CONTRACTS

Researchers from the "Ramón y Cajal", "María Zambrano" and "Postdoc Senior UVa" programs, both for new incorporation and those who have not been successful in the previous call, who are currently working at UVa and to whom, as a research policy measure, a pre-doctoral contract is provided to enhance their research activity:

REFERENCE: MZAMBRANO1

Principal Investigator: María Celina Bermúdez Árias.
Topics to be developed for the choice of doctoral thesis: A new line of research will be opened with the aim of using artificial intelligence techniques (machine & deep learning) in combination with the latest technical advances in rotational spectroscopy to advance in the detection of new chemical species in interstellar space. Using artificial intelligence methods, an analysis of the chemical characteristics of the species detected in space will be made to generate a model that can predict whether or not a molecule has the potential to be present in different stellar objects. Molecules with high potential to be present will be analyzed using the latest advances in rotational spectroscopy in order to confirm their presence in space. The goal is to put the model into online production, as well as a web site with the database that feeds the model. In addition, these techniques will be used to improve different phases of rotation spectra analysis with the creation of models that visually identify patterns to aid in their assignment.
Expected profile of candidates: Degree/Master's Degree/Engineering in a scientific field: chemistry, physics, mathematics, computer science, telecommunications... Python programming skills (numpy, pandas, sklearn...) are highly recommended, but not essential.



REFERENCE: MZAMBRANO2

Researcher in charge: Alberto Díez de la Varga

Topics to be developed for the doctoral thesis: The doctoral thesis will be oriented to the development of methodologies related to host-guest chemistry based on new inclusion complexes that provide useful adducts for the study of different optoelectronic properties.

The complexes will be mainly heterotetrameric between cucurbiturils and two functionalized units with chromophores as hosts.

Another line of research within the study of host-guest interactions are those involving different types of polyaromatic compounds.

Expected candidate profile: We are looking for a candidate with, if possible, research experience in organic and inorganic synthesis and advanced structural characterization techniques.

Minimum requirements:

- Bachelor's degree in Chemistry or related areas.
- Official university master's degree in Chemistry or related areas.

Desirable requirements:

- Teamwork skills.
- Versatile, organized and methodical person.
- Positive and committed to research.

Desired knowledge:

- Synthesis techniques (work in inert atmosphere, low temperature, ...).
- Separation techniques (chromatography, crystallization, ...).
- Characterization techniques (nuclear magnetic resonance, X-ray diffraction, mass spectrometry, ...).
- English.
- Design of experiments.
- Project management.

During the development of the doctoral thesis, international mobility (research stays in national or international research centers) and participation in scientific congresses will be encouraged.



REFERENCE: MZAMBRANO3

Principal Investigator: Beatriz González del Río
<p>Topics to be developed for the choice of doctoral thesis:</p> <ol style="list-style-type: none"> 1) Ab initio molecular dynamics simulations, using Density Functional Theory, of various solid and liquid metallic alloys. 2) Development of atomic potentials through neural networks for molecular dynamics. 3) Study of static, dynamic, and electronic properties of metallic alloys. The effect of hydrogen and helium isotopes, as well as impurities present in reactors (e.g. oxygen), on the properties of liquid metallic alloys will also be studied.
<p>Expected Candidate Profile: The candidate should have a BS and MS degree in Physics or Chemistry, with experience, if possible, in molecular dynamics and Density Functional Theory. Experience in artificial intelligence and neural networks is not required, but will be considered. The candidate should have initial programming skills in Python and some other language (C, Fortran 90, ...) In particular experience with C++ will be taken into account. It is very important to have a good level of English, both written and spoken.</p>

REFERENCE: MZAMBRANO4

Researcher in charge: Xavier Paredes Méndez
<p>Topics to be developed for the choice of doctoral thesis:</p> <p>Thermophysical properties of fluids for energy transition.</p> <p>The necessary climate neutrality demands technologies that enable an energy transition both in the origin of primary energy and in its conversion, transport and storage processes, as well as in its use. This project will contribute to this quest with precise measurements of the properties of the clean fluids needed in this transition.</p> <p>Objectives. Characterization of: 1) ionic liquids; 2) hydrogen-bearing compounds; 3) mixtures of hydrogen-bearing compounds and ionic liquids.</p>
<p>Expected profile of candidates: The candidate's academic record and experience in the area of the proposal or related areas will be valued.</p> <ul style="list-style-type: none"> ▪ Requirements: Degree in Engineering, Chemistry or Physics. Good level of English, with high reading ability. <p>Desirable requirements: Knowledge of thermodynamics. High level of English</p>



REFERENCE: SENUVA1

Principal Investigator: Teresa Fernández Crespo
Topics to be developed for the choice of doctoral thesis: Funerary practices, demographic patterns, states of health and disease, modes of subsistence and breeding in prehistoric and/or protohistoric populations of the interior of the Iberian Peninsula.
Profile expected of candidates: Autonomy, initiative and proactive attitude; Willingness to carry out research stays in national and foreign centers; Ability to develop multidisciplinary laboratory work; Familiarity with statistical data analysis; Master's degree in Bioarchaeology (Physical Anthropology, Molecular Archaeology or similar), preferably; Good level of spoken, written and read English.

REFERENCE: SENUVA2

Principal Investigator: Alberto Tena Matías
Topics to be developed for the choice of doctoral thesis: Development of new hybrid materials (polymer + inorganic). Separation process membranes (hydrogen purification, CO2 capture, air purification, ...) Processing of materials in thin layers (<100 nm) Characterization of the structure and properties of the materials.
Expected profile of candidates: Enthusiastic and hard-working person with a desire to train in a multidisciplinary field. Therefore, people with a background in Chemistry, Physics or Chemical Engineering may apply for this position.



REFERENCE: RyC1

Principal Investigator: Daniel Alvarez González
Topics to be developed for the choice of doctoral thesis: Within the field of data science and computational learning in general and its application to clinical/health problem solving in particular, the following topics will be developed: 1) advanced processing of biomedical records for the characterization of respiratory pathologies; 2) design, implementation and comprehensive evaluation of automatic models based on <i>machine learning</i> and <i>deep learning</i> to aid in the diagnosis of respiratory pathologies; 3) intelligent analysis of clinical data using <i>big data</i> approaches in search of precision medicine in the context of respiratory sleep disorders.
Expected profile of candidates: Both the candidate's academic record and previous experience in the research field (dedication and scientific production) will be valued. The candidate should have a degree in Engineering, Mathematics, Physics or another degree with competences in data and time series analysis, artificial intelligence and programming languages. A background in Biomedical Engineering is a plus. The candidate must demonstrate a good level of English, with high reading and writing skills. Experience in the use of one or more of the following tools will also be a plus: Matlab, Python, R

REFERENCE: RyC2

Responsible researcher: Ana Cabrerizo Pastor
Topics to be developed for the choice of doctoral thesis: In-use and emerging contaminants in Arctic ecosystems: new threats in a scenario of global change? This thesis proposal will address the study of two global environmental problems, climate change and pollution by polycyclic aromatic hydrocarbons (PAHs), their metabolites (OH-PAH) and emerging contaminants (microplastics) in the Arctic (specifically in lakes of Cornwallis Island and Melville Island, their fate and behavior in a global warming scenario. This will be done by collecting and analyzing the aforementioned contaminants in the following samples: sediment corer, soils, water, biota, etc. from Arctic lakes and their surroundings.
Expected candidate profile: The pre-doctoral candidate will foreseeably have a Bachelor's Degree/Graduate Degree in Chemical Sciences/ Marine Sciences/ Biology/ Environmental Sciences/ or related degrees/degrees.



The work to be developed will possibly involve a field sampling campaign in polar areas e.g. Arctic (summer 2024) and/or Antarctica. The work required of the predoctoral candidate involves a heavy laboratory and statistical analysis load. Therefore, highly motivated candidates are required.

Participation in previous field work, as well as knowledge of analytical and chromatographic techniques GC/MS, GC/MS-MS, LC-MS/MS will be a plus. High level of oral and written English is required.

REFERENCE: RyC3

Principal Investigator: Laura Román Rivas

Topics to be developed for the choice of doctoral thesis:

In mixed food systems containing starch and proteins, the final structure is the manifestation of the underlying molecular interactions between the various macromolecules at different scales, and their behavior is closely related to the processing parameters (temperature, shear, humidity, pH, etc.). The reactions are complex and all aspects, from the molecular to the supramolecular and macroscopic, must be taken into account and studied with a "whole system" approach, using complementary and cross-sectional analytical techniques.

The topics to be developed are the following, related to 4 specific objectives (O):

1. To understand the effect of the variety and degree of refinement of plant proteins on the formation of the structure of protein-starch matrices (O1).
2. Deciphering the role of processing parameters in modifying the functionality of legume and oilseed plant proteins (O2).
3. To understand the effect of starch sources on the structural properties of food matrices formed with novel plant proteins (O3).
4. To evaluate the role of food structures formed during processing on the digestibility of starch-protein matrices (O4).

Expected profile of candidates:

Degree in Food Science, Technology and/or Engineering

Proficiency in English and statistical computing tools

Knowledge of laboratory techniques oriented to food development (microscopy, rheology, calorimetry, other physical properties, cereal processing pilot plant).



REFERENCE: RyC4

Principal Investigator: Luis Pablo Prieto Santos

Topics to be developed for the choice of doctoral thesis:

D. students are a critical part of our society's research workforce and a key resource in addressing the complex challenges we face, from climate change or the rise of artificial intelligence (AI), to understanding how and why political orders collapse. However, much of this potential never comes to fruition, as doctoral education suffers from high dropout rates and emotional health issues (e.g., anxiety, depression, stress). In fact, these problems of well-being and persistence affect hundreds of thousands of doctoral students worldwide. Recent research on doctoral education has uncovered important motivational factors related to these problems, but an intervention strategy that is generalizable and takes into account the uniqueness inherent in each doctoral pathway and subject is not available. Could technology provide scalable support to address these problems?

This doctoral thesis will be carried out within the transdisciplinary research group GSIC-EMIC (<https://www.gsic.uva.es/>), one of the most powerful in Europe in the field of educational technologies. This new line of research will attempt to address precisely this challenge: how the latest advances in *data science* and AI, together with research findings in psychology and doctoral education, can support the well-being and persistence of doctoral students in a personalized and scalable way. Thus, the thesis may aim at developing technologies, frameworks and patterns of human-IA collaboration, specific AI models for application in doctoral education, as well as evaluating their impact on the well-being and persistence of doctoral students.

Expected profile of candidates:

Reflecting the multidisciplinary nature of the above-mentioned topic and the research group in which it is framed, three types of profiles will be considered for this position, which in turn can carry out the doctoral thesis in different doctoral programs of the University of Valladolid:

A person with a background in computer science or engineering, including experience in machine learning or other AI approaches, who is not afraid to talk to end users and examine quantitative and qualitative empirical data from them. Having experience in human-AI collaboration issues would be a great advantage to be selected.



2. A person with a background in psychology or education and experience in multiple methods of qualitative and quantitative data collection and analysis, who is not afraid to use (and study the use of) technological innovations. Having specific experience in doctoral education and/or psychotherapeutic practice in dealing with emotional health issues (especially using evidence-based cognitive-behavioral approaches) would be a great advantage.
3. A person with a design-oriented background and experience in involving end-users in the design of socio-technical systems (especially, educational technologies), who has no problem creating low-fidelity and high-fidelity prototypes. Experience in human-centered design techniques and value-sensitive design is a plus.

REFERENCE: RyC5

Principal Investigator: Biagio Mandracchia

Topics to be developed for the choice of doctoral thesis:

Despite several recent significant advances in microscopy, temporal resolution remains a relatively unexplored frontier full of untapped potential. In this context, the objectives of the PhD work will be: 1) The design of innovative 3D printable optical neural networks; 2) The realization of optical platforms for image processing by deep learning at the speed of light. 3) The development of systems for biomedical image processing with a focus on accelerating normally time-consuming tasks such as particle localization and cell tracking.

Expected profile of candidates:

The candidate must have a bachelor's and master's degree in Engineering or Science. Experience in artificial intelligence and neural networks is not required, but will be taken into account. The candidate should have initial programming skills in Python and/or some other language (C, MATLAB, Julia, ...). In particular, experience in image processing will be taken into account. It is very important to have a good level of English, both written and spoken, since the PhD student will have to do a stay in the USA.



REFERENCE: RyC6

Principal Investigator: Octavio García Depraect
Topics to be developed for the choice of doctoral thesis: The objectives of the project are i) to maximize biohydrogen production efficiency using immobilized biomass fermenters with high gas-liquid transfer; ii) to evaluate the effect of operating parameters on operational performance and process microbiology; iii) to evaluate the performance of integrated membrane-based fermentation processes for hydrogen purification and <i>in-situ</i> recovery of organic acids; iv) to develop and techno-economically evaluate a biorefinery scheme based on acidogenic fermentation with biogas production.
Expected profile of candidates: The candidate must have a scientific profile related to the area of environmental biotechnology, chemical/environmental engineering, microbiology, bioenergy, bioprocesses with a related official Master's degree. It will be positively valued that the candidate duly justifies his/her participation in congresses, conferences and scientific meetings, research stays, specialization courses, scientific publications, academic scholarships, all in lines related to the expected profile. The candidate is expected to have a command of the English language with accreditation equivalent or superior to level B2.

ANNEX B CALCULATION OF THE AVERAGE GRADE

For the calculation of the average grade, the following will be taken into account:

1.- FOR STUDIES CARRIED OUT IN SPANISH SCHOOLS

- a) The calculation of the average grade will be based on the numerical scale of 0-10, established in article 5 of Royal Decree 1125/2003, of September 5, establishing the European credit system and the grading system for official university degrees valid throughout the national territory and in paragraph 4.3.4 of the annex to Royal Decree 1044/2003, of August 1, establishing the procedure for the issuance by universities of the European Diploma Supplement.
- b) The average grades of the degrees obtained in courses taken in two or more universities must contain the total number of subjects, their grades and credits passed.



In these cases, the validated subjects will have the equivalence in points corresponding to the grade obtained in the center of origin. With respect to the adapted subjects, the grade obtained in the center of origin will be computed, and the recognition of credits in which there is no grade or that correspond to training activities not integrated in the study plan will not be taken into account for the purposes of calculating the average grade, in accordance with the provisions of Royal Decree 1125/2003, of September 5.

If the transcript includes only the qualitative grade, the calculation of the average grade will be made taking into account the valuation of each of the different grades, which for the present call will be as follows:

Honor Roll	Outstanding	Notable	Approved
10 points	9.25 points	7.75 points	5.75 points

c) In any case, the average grade of the academic record of the studies accredited for obtaining the corresponding degree will be the result of the application of the following formula: sum of the credits obtained by the student, multiplied by the value of the corresponding grades, and divided by the total number of credits obtained by the student.

d) In the event of any case other than those mentioned above, the examining body shall determine the average grade by analogy, safeguarding the principle of equity.

2.- FOR STUDIES IN FOREIGN CENTERS

In the case of degrees obtained for studies carried out partially or totally in foreign university systems, adapted or not to the European Higher Education Area (EHEA), the equivalence to Spanish qualifications will be calculated through the electronic headquarters of the Ministry of Education and Vocational Training.

Information on equivalencies is available to users on the portal:

www.mecd.gob.es/mecd/servicios-al-ciudadano-mecd/catalogo/general/educacion/203615.html

Any questions or queries should be directed to the following e-mail address:

notamedia.uni@mecd.es.

The applicant shall provide the "Declaration of Equivalence of Average Grade" obtained in the manner described on the Ministry's website. It will only be effective if it is accompanied by the official academic certificate and, if applicable, the corresponding translation.



ANNEX C

Regular Advisory Committee

- **SCIENCE:**
 - Philippe Thierry Giménez (Algebra)
 - Asuncion Barbero Perez (Organic Chemistry)
- **HEALTH SCIENCES:**
 - Maria Dolores Ganformina Alvarez (Physiology)
 - Manuel Garrosa García (Histology)
- **SOCIAL AND LEGAL SCIENCES:**
 - Susana Anibarro Pérez (Financial and tax law)
 - Fernando Adolfo Tejerina Gaité (Financial Economics and Accounting)
- **ARTS AND HUMANITIES:**
 - María del Henar Pascual Ruiz-Valdepeñas (Human Geography)
 - José Luis Cano de Gardoqui García (History of Art)
- **ENGINEERING AND ARCHITECTURE:**
 - Benjamín Sahelices Fernández (Computer Architecture and Technology)
 - Ángel Martín Martínez (Chemical Engineering)
 - Fernando Zaparain Hernández (Theory of Architecture and Architectural Projects)

Alternate Advisory Committee

- **SCIENCE:**
 - Pedro César Álvarez Esteban (Statistics and Operations Research).
 - Ismael Barba García (Electromagnetism).
- **HEALTH SCIENCES:**
 - María Ángeles Gómez Niño (Cell Biology).
 - Rocío Aller de la Fuente (Medicine).
- **SOCIAL AND LEGAL SCIENCES:**
 - Alfonso Jorge García Monge (Didactics of Corporal Expression).
 - Segismundo Samuel Izquierdo Millán (Business Organization).
- **ARTS AND HUMANITIES:**
 - María del Carmen Gierden Vega (German Philology).
 - Antonio Cabeza Rodríguez (Modern History).
- **ENGINEERING AND ARCHITECTURE:**
 - Pilar Tiedra Frontaura (Materials Science and Metallurgical Engineering).
 - Luis Felipe Acebes Arconada (Systems and Automation Engineering).
 - María Rosa González García (Plant Production).



ANNEX D

INFORMATION ABOUT THE PROCESSING OF PERSONAL DATA

Call 2023 for predoctoral contracts of the University of Valladolid, co-funded by Banco Santander.

1. Responsible for processing

University of Valladolid

VAT NUMBER: Q4718001C

Address: Plaza del Colegio de Santa Cruz, 8 - 47002 Valladolid

Responsible for privacy: responsable.privacidad@uva.es Delegado de protección de datos: delegado.proteccion.datos@uva.es

2. Data Protection Officer

This is the professional figure that supervises the compliance of personal data protection by the University of Valladolid.

You can contact us at delegado.proteccion.datos@uva.es

3. Purposes for which personal information is collected

The data is used for the administrative management and processing of the aid object of this call.

4. Legal basis for processing

The University of Valladolid is a public institution that develops the central functions of teaching, research and knowledge transfer and exchange, in accordance with the provisions of Article 1 of the Organic Law 2/2023, of March 22, of the University System.

The promotion of scientific research and technological development will be the responsibility of the General State Administration and the Autonomous Communities, in accordance with the applicable legislation, without prejudice to the development of the universities' own programs.

Chapter three of section seven of title four of AGREEMENT 111/2020, of December 30, of the Junta de Castilla y León, approving the Statutes of the University of Valladolid, empowers the University to select its own research personnel.

Likewise, the official publication of personal information in the National Database of Subsidies, in bulletins and/or official bulletin boards, and in the transparency portal of the University of Valladolid, are based on the following:

- Law 39/2015, of October 1, of the Common Administrative Procedure of Public Administrations.



- Law 19/2013, of December 9, 2013, on transparency, access to public information and good governance.
- Law 3/2015, of March 4, on Transparency and Citizen Participation of Castilla y León.
- Law 38/2003, of November 17, 2003, General Law on Subsidies.

5. Compulsory transfer of data

The successful bidders will be published on the official bulletin board of the electronic headquarters of the University of Valladolid.

6. Data retention period

The personal data provided will be kept according to their nature in accordance with the following criteria:

- For the period necessary for the filing of any administrative or judicial appeals that may arise.
- The University of Valladolid is a public institution subject to the obligations of Law 16/1985, of June 25, 1985, on Spanish Historical Heritage and Law 6/1991, of April 19, 1991, on Archives and Documentary Heritage of Castilla y León and, therefore, it may keep the information determined for archival reasons in the public interest.

7. Rights of interested parties

In order to maintain control over their data at all times, interested parties may exercise their rights of access, rectification, deletion, portability, limitation or opposition to processing by submitting a letter to the Registry of the University of Valladolid or by mail addressed to:

Privacy Officer.

Plaza del Colegio de Santa Cruz, 8 - 47002 Valladolid

Where appropriate, supporting documentation must be provided:

- Proof of the identity of the person concerned by means of any valid document, such as ID card or passport.
- Name and surname of the interested person or, when applicable, of the person representing him/her, as well as the document accrediting such representation.
- Request in which the application is made.
- Address for notification purposes, date and signature of the applicant.
- Documents supporting the request being made, if applicable.
- In case of rectification or cancellation, indication of the data to be rectified or cancelled and the reason that justifies it.

8. Competent authority for the submission of complaints

In case you wish to file a complaint or obtain additional information on the regulation of the processing of personal data in Spain, the competent authority is the Spanish Data Protection Agency (Jorge Juan, 6 28001-Madrid).