





Rector's resolution announcing the 2024 call for pre-doctoral contracts of the University of Valladolid co-financed by Banco Santander.

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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 the different branches of knowledge.

The main objective of this call is to increase the quantity and quality of people accessing doctoral training, facilitating and promoting the completion of their doctoral theses within the framework of the best research projects.

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It is also intended to provide an incentive to obtain a doctorate during the third year of the contract by financing a post-doctoral orientation period (POP), the specific objective of which is to enable those enrolled in a doctoral programme to improve the knowledge acquired during the completion of their doctoral theses and to consolidate their academic career.

The combination of an applicant with a good academic preparation who undertakes 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 enable the University to have well-trained people available for 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 must be favoured. 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 label. The *Human Resources Strategy for Researchers* (HRS4R) is a European Union strategy that aims to make research an attractive career, providing research staff with the same rights and obligations in any of the EU countries where they work. The implementation of the strategy is a tool to provide a suitable environment for research staff, making the institution a recommended destination for international researchers. The European Charter for Researchers is based on the *roles, responsibilities and rights of research staff and their employers*. 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 programme. Its purpose is to promote the specialised training of people who wish to direct their professional activity towards teaching and research.

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

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CHAPTER I GENERAL ASPECTS

Article 1. Object and purpose of the call.

- 1. The purpose of this call is to offer employment contracts for doctoral training, under the pre-doctoral contract modality regulated in article 21 of Law 17/2022, of 5 September, which modifies Law 14/2011, of 1 June, on Science, Innovation and Technology.
- 2. The purpose of the grants is doctoral training through the financing of four-year employment contracts for the development of research tasks within the scope of a specific and novel project, aimed at the completion of a doctoral thesis in a Department or in a University Research Institute of the University of Valladolid, including the financing of stays in R&D centres up to a certain amount. Likewise, a period of postdoctoral orientation (hereinafter POP) will be financed once the doctoral degree has been obtained, for a maximum period of twelve months from the date of reading the thesis, aimed at the professional improvement and specialisation of the research personnel, provided that the degree is obtained during the period of execution of the grant, and the sum of the two periods may not exceed four years.

Article 2. Number and types of aid.

1. Grants are available for 54 pre-doctoral research staff contracts, of which 7.5% (4 contracts) are reserved for students with a disability equal to or greater than 33%. If these contracts are not filled, they will be incorporated into the ordinary modality.

A number of 14 contracts are reserved for the attraction modality, and will be linked to postdoctoral researchers from different programmes (Beatriz Galindo, María Zambrano, Ramón y Cajal, and Postdoctoral Senior UVa) with whom the University of Valladolid has made a commitment to provide a predoctoral contract, and who have joined after the last call for predoctoral contracts, or did not get the predoctoral contract covered in the 2023 call. The contracts of this modality that are not filled will be incorporated into the ordinary modality.

The remaining 40 contracts will be distributed in two modalities: 20 contracts for the project modality and another 20 for the ordinary modality. The contracts for each of 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 contracts of the project modality that are not filled will be incorporated into the ordinary modality.

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The distribution of places among the five branches of knowledge will be carried out as described in article 17, section 6, of this call. The allocation of the main areas of knowledge will be made in accordance with the Doctoral Programme selected in the application, following the distribution described in https://esduva.uva.es/oferta/programas-de-doctorado/.

- 2. 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 pre-doctoral researchers contracted from the research personnel training programme (FPI), nor a pre-doctoral researcher contract obtained in any of the two calls for UVa Predoctoral Contracts immediately prior to this call may apply for the project modality. The rest of the applications will compete in the ordinary mode.
- 3. Each of the pre-doctoral contracts will have a mobility grant for research stays or conference attendance of €3,000. This amount must be executed before the end of the contract or the defence of the thesis, whichever comes first. The beneficiaries of this call will be able to participate in the mobility grants of the Vice-rectorate for Research of the University of Valladolid, although additional financial resources will only be allocated once the €3,000 has been spent.
- 4. Each applicant may only submit one application. In the event that there are two applications from the same person, he/she will be considered to have chosen the one submitted last according to the date and time of registration at the University, and any application submitted earlier will be considered invalid.
- 5. In the project modality, the training project of the applicant must be directly related to the research project funded by the EIP used to justify the allocation to this modality. The same project may not be used for more than one application, even if the persons responsible for the contracts are different. In case the same project is used for two or more applications, the first application received will be assigned to the project modality, and the rest will be assigned to the ordinary modality.
- 6. Research projects, to the implementation of which this call contributes, shall comply with the Code of Good Practice in Research, approved by the Governing Council Agreement of 31 January 2013.
- 7. The recruitment of pre-doctoral research staff shall be carried out in accordance with the principles set out in the European Commission Recommendation of 11 March 2005 on the European Charter and Code of Conduct for the Recruitment of Research Staff.

Article 3. Granting regime and applicable regulations.

1. The grants provided for in this call for proposals will be awarded on the basis of

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competitive tendering system and applying the principles of publicity, transparency, objectivity, equality, merit, capacity and non-discrimination, as well as those of effectiveness in the fulfilment of the objectives set and efficiency in the allocation and use of public resources, established in article 8.3 of Law 38/2003, of 17 November, General Law on Subsidies.

- 2. Aid for the financing of contracts will be governed by the following rules:
- a) Royal Decree 99/2011, of 28 January, modified by RD 576/2023, of 4 July, which regulates official doctoral studies (BOE 10/02/2011).
- b) Resolution of 9 May 2022, of the Rectorate of the University of Valladolid, delegating certain powers to various unipersonal bodies of this university, and adopting other organisational measures (BOCYL 18/05/2022).
- c) Statutes of the University of Valladolid, approved according to agreement 111/2020, of 30 December, of the Junta de Castilla y León, (BOCYL of 31 December 2020).
- d) Law 39/2015, of 1 October, on the Common Administrative Procedure of Public Administrations.
- e) Law 40/3015, of 1 October, on the Legal Regime of the Public Sector.
- f) Ley Orgánica 2/2023, de 22 de marzo, del Sistema Universitario (B.O.E. de 23 de marzo de 2023).
- g) Law 14/2011 of 1 June 2011 on Science, Technology and Innovation, as amended by Law 17/2022 of 5 September.
- h) R.D. Legislative 5/2015, of 30 October, approving the revised text of the Law on the Basic Statute of the Public Employee.
- i) Organic Law 4/2000 of 11 January 2000 on the rights and freedoms of foreigners in Spain and their social situation (BOE of 12 January 2000).
- j) Royal Legislative Decree 2/2015 of 23 October 2015, approving the revised text of the Workers' Statute Law (BOE of 24 October 2015).
- k) Royal Decree 103/2019, of 1 March, approving the Statute of pre-doctoral research personnel in training.
- I) 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 Agreement of the Governing Council on 31 January 2013, shall be applicable on a supplementary basis.

Article 4. Competent bodies for investigation, resolution and interpretation.

1. The body responsible for investigating and organising the award procedure shall be

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The UVa's Research Support Service will be in charge of the grants.

- 2. The body responsible for issuing the corresponding resolutions on the awarding of grants shall be the Vice-Rectorate for Research.
- 3. The competent body for the interpretation of any aspect of this call shall be the Research Committee of the Governing Council.

Article 5. Communications between the University of Valladolid and the persons concerned.

- 1. The communications of all the actions carried out in the procedure for the awarding of grants, in their justification and monitoring will be carried out through the electronic means established in this call for applications.
- 2. The use of the established electronic means shall be compulsory both for the notification or publication of the administrative acts that are issued.
- 3. Pursuant to the provisions of Article 45 of the Law on Common Administrative Procedure for Public Administrations, notification of the procedures for rectification, presumed withdrawal, exclusion resolution, proposed resolutions and award resolutions will be made by publication on the Electronic Notice Board of the University of Valladolid, with all the effects of notification.
- 4. When completing the application, the applicant must indicate an e-mail address where they can be notified of any incidents in the procedure. In such a case, the investigating body may send the interested party a courtesy notice, via e-mail, informing them that this new action has taken place and that they may obtain reliable and detailed information about it by accessing https://sede.uva.es.

CHAPTER II

CHARACTERISTICS OF THE CONTRACT AND FINANCING OF AID

Article 6. Characteristics of the contract.

- 1. The pre-doctoral contract, in accordance with its specific regulations, shall have the characteristics described below, for the entire duration of the contract:
- a) The purpose of the pre-doctoral contract shall be the simultaneous performance by the pre-doctoral research staff 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 carry out any other activity that detracts from the research and training purpose of the contract. The research activities will be carried out in a centre and a department.

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or university research institute of the University of Valladolid, located on any of its four campuses. These staff shall be considered as pre-doctoral research staff in training.

- b) The contract shall be concluded in writing between the trainee research staff, in their capacity as employees, and the University of Valladolid, in its capacity as employer.
- c) The contract will be formalised in the form of a pre-doctoral contract, as provided for in Law 14/2011, of 1 June, on Science, Technology and Innovation (BOE of 2 June), modified by Law 17/2022, of 5 September, on a full-time basis. As a general rule, the duration of the contract shall be four years. However, when the contract is for a person with a disability, it may be for a maximum 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 has received other public or private grants for pre-doctoral training, within the framework of Law 14/2011, modified by Law 17/2022, of 5 September, 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) The annual remuneration of the pre-doctoral contract will be €17,824.08 in the first and second year, €19,097.28 in the third year and €23,851.60 in the fourth year. In each year, 12 monthly payments will be accrued, plus two extra payments prorated over the year.
- 2. In accordance with article 21 of Law 14/2011, of 1 June, on Science, Technology and Innovation, modified by Law 17/2022, of 5 September, when research staff in training obtain the title of doctor before the end of the 4-year contract period, this will continue, with the aim of postdoctoral guidance, for a maximum period of 12 months from the date of defence of the thesis, without the total duration of the pre-doctoral contract exceeding 4 years, or six in the case of disability. For these purposes, the doctoral degree is considered to have been obtained on the date of the defence and approval of the doctoral thesis. Ten days before the date of the reading of the doctoral thesis, the interested party shall provide the Research Support Service with a programme of work and activities for this period.
- 3. The contract provides for a trial period of three months.
- 4. The interruption of the contract shall not entail the extension of the duration of the contract, except when the interruption is due to temporary incapacity for a period of at least two consecutive months and the rest of the situations referred to in Art. 21.c) of Law 14/2011, of 1 June, on Science, Technology and Innovation (BOE

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of 2 June), as amended by Law 17/2022 of 5 September.

- 5. The grants regulated by this order shall be incompatible with other contracts or grants financed with public or private funds whose object is also research and with the remuneration of any activity carried out during the same working hours.
- 6. However, the aid shall be compatible with the receipt of aid:
- a) For attendance at congresses and scientific meetings.
- b) For short stays and temporary secondments, granted by public or private, national or international organisations, provided that they are taken up during the pre-doctoral contract phase.
- 7. The beneficiaries must inform the Research Support Service of the University of Valladolid of any other grants, subsidies, income or resources that finance the subsidised activities.
- 8. In any case, the centre where the work is carried out must be integrated in one of the campuses of the University of Valladolid.

Article 7. Linking the research work and the place where it is to be carried out.

- 1. The original research work to be carried out during the period of the contract must be linked, whenever possible, to a competitive research project, or to a research agreement or contract signed with public bodies or private companies, in progress at the closing date for the submission of applications and/or at the provisional award stage in the case of competitive projects. In the case of contracts, the minimum amount of the contract must be €10,000 (ten thousand euros) of direct costs, VAT excluded.
- 2. In the case of the project modality, the contract will be linked to the competitive project funded by the EIP that was used to access this modality and will be incorporated into the project team.
- 3. For the projects/agreements/contracts referred to in point 1, only those where the beneficiary is one of the following will be considered:
- a) The University of Valladolid.
- b) The University of Valladolid Foundation.
- c) The CSIC within the framework of the IBGM, as a joint centre, provided that it maintains the collaboration agreement in force with the University of Valladolid.
- d) The Valladolid Institute for Biosanitary Research (IBioVall).

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4. In any case, the centre where the work is carried out must be located on one of the campuses of the University of Valladolid.

Article 8. Rights of pre-doctoral research staff.

- 1. The contracted person 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 staff in training, contracted 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.
- 2. Predoctoral research staff in training shall have all the rights established in Article 14 of Law 14/2011, of 1 June, on Science, Technology and Innovation, modified by Law 17/2022, of 5 September, and in Chapter II of Royal Decree 103/2019, of 1 March, which approves the Statute of pre-doctoral research staff in training.
- 3. Predoctoral research staff 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 length of the predoctoral contract, and in no case may they exceed 60 hours per year.
- 4. The university departments of the University of Valladolid in which the pre-doctoral research staff in training are integrated will facilitate, on equal opportunities, and as far as possible within the limits established above, the carrying out of these collaborations in teaching tasks to those research staff who so request, and as far as possible within the limits established above. The practical exercise of these competences to be acquired will be carried out in undergraduate degrees without, under any circumstances, the person receiving the aid being able to be responsible for or coordinate a subject, or direct TFG, or form part of tribunals or sign minutes. The teaching collaboration will be calculated as established in the current staffing document of the University of Valladolid.

Article 9. Obligations of pre-doctoral research staff.

- 1. The signing of the contract implies the commitment, on the part of the beneficiary, to comply with the conditions set out in this call, as well as with the duties set out in Article 15 of Law 14/2011, of 1 June, on Science, Technology and Innovation, modified by Law 17/2022, of 5 September, and in Chapter II of Royal Decree 103/2019, of 1 March, which approves the Statute of pre-doctoral research personnel in training.
- 2. Without prejudice to the obligations inherent in their status as staff with an employment contract with the University of Valladolid, the persons selected within the framework of this

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call for proposals shall:

- a) Once the employment contract has been formalised, to join the University of Valladolid centre and the department or university research institute to which they are assigned, which will inevitably be their usual place of work.
- b) To request and obtain authorisation from the head of the vice-rectorate with responsibility for research for any change in the department or university research institute to which it is attached, subject to a favourable report from both departments or institutes concerned.
- c) To complete the different stages of the training process, the completion of the thesis and participation in research projects in which it is involved.
- d) Request prior authorisation from the Vice-Rector's Office with responsibility for research for any temporary absence from the department/institute of assignment related to training and research activities. However, for absences due to attendance at congresses, meetings or scientific conferences, only the authorisation of the director of research and of the department/institute of assignment will be required.
- e) Communicate to the Research Support Service the date of the reading of the doctoral thesis, at least 10 days before the reading.
- 3. Contracted research staff are obliged to state in the publications and other results to which the research work may give rise the link to the University of Valladolid, in accordance with the Resolution of the Rectorate of the University of Valladolid of 8 April 2013, on the standardisation of institutional affiliation in all types of publications carried out by staff linked to the University of Valladolid. Likewise, they must state the financing of Banco Santander. To this end, in the acknowledgements section, the following should be indicated: "Name of the researcher" has been funded by the call for UVa 2024 predoctoral contracts, co-funded by Banco Santander".

Article 10. Financing of aid.

- 1. The contracts of this call will be financed from the budget application 180113-463A.2.01 of the year 2024 and from the corresponding budget application of the Budget of the University of Valladolid for the following years.
- 2. The total amount of this call (remuneration + employer's contribution + indemnity), for its 4 annual instalments amounts to 5.792.997 €.
- 3. On termination of the contract on expiry of the agreed period, the worker shall be entitled to receive compensation equivalent to that provided for in the case of

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fixed-term contracts in Article 49 of the revised text of the Workers' Statute Law. The amount of the indemnity is calculated on the full remuneration of the last month worked divided by 30 and multiplied by the days worked since the start of the contract and by a coefficient of 0.033 (12/365) corresponding to 12 days per year worked.

- 4. The aid is subject to personal income tax, so the withholding system established in the current regulations must be applied.
- 5. The mobility grant for an amount of 163.000 € will be financed from the application 180113 463A.2.04 of the year 2024 and from the corresponding budgetary application of the Budget of the University of Valladolid for the following years. This aid will be paid in accordance with the amounts of RD 462/2002.
- 6. This call for proposals is subject to the suspensive condition that there is adequate and sufficient appropriation to finance the obligations arising from the grant in the relevant financial years. This appropriation may be increased if circumstances so require.

CHAPTER II GENERAL REQUIREMENTS FOR PARTICIPATION

Article 11. Requirements for applicants.

- 1. Applicants may be anyone who is enrolled or admitted to a doctoral programme for the academic year 2023/2024. Applicants may also be those who do not meet the above condition but are in a position to do so on the date on which the contract is formalised.
- 2. Those who fulfil any of the following circumstances are not eligible to apply for or receive grants under this call for proposals:
- a) Hold a PhD degree from any Spanish or foreign university.
- b) Have started their pre-doctoral training with funding from other grants for the predoctoral recruitment of research staff awarded by the State Research Agency or by the Directorate of Universities and Research of Castilla y León.
- c) Have held a pre-doctoral contract for more than 12 months prior to the submission of the application.
- 3. It is an indispensable requirement to be enrolled in a full-time doctoral programme at the University of Valladolid at the start date of the contract. This requirement must be maintained throughout the duration of the pre-doctoral contract.

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Article 12. Requirements and obligations of the person responsible for the contract.

- 1. Applicants who are already enrolled in a doctoral programme at the University of Valladolid at the time of application may only participate in this call with one person as director of their 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 supervisor/director by the academic committee of the doctoral programme in accordance with article 11.3 of RD 99/2011, of 28 January, modified by RD 576/2023, of 4 July, which regulates official doctoral studies.
- 2. Those who are not enrolled in a doctoral programme at the University of Valladolid 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 28 January, to be appointed by the corresponding academic committee of the doctoral programme, if applicable.
- 3. Incidents relating to the person directing the research work, except for the assessment of the requirements established in this article, shall be resolved in accordance with the regulations of the Doctoral School and with the provisions of this rectoral resolution.
- 4. In the attraction modality, the person directing the research work must meet the following requirements:
- a) You will be a researcher with a postdoctoral contract from any of the programmes to which the University of Valladolid grants a predoctoral contract that was not covered in the previous call (see Annex I).
- b) He/she must be the supervisor of the doctoral thesis of the person who obtains the pre-doctoral contract, for which he/she will have proposed a research project leading to the award of the doctorate (see Annex I).
- c) You may not participate as the lead applicant in any other application under any other modality of this call.
- 5. In the project and ordinary modalities, the person directing the research work must meet the following requirements:
- a) To be a <u>full time PDI doctoral candidate</u>, with an employment or civil servant relationship with the University of Valladolid or with one of the public research organisations that have a stable and valid collaboration agreement with the University of Valladolid:
- i. The Institute of Biomedicine and Molecular Genetics (IBGM).
- ii. The Centre for Biomedical Research Network (CIBER).
- b) To have six years of active service. If you have 6 sexennia, you will be considered to have a sexennia alive.
- c) In the event of a contractual relationship with the University of Valladolid, if their

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If the duration of the contract does not exceed the maximum period of the pre-doctoral contract, established at a maximum of forty-eight months, added to those of the resolution of this call, it will be compulsory to appoint a co-director who is a permanent PDI of the University of Valladolid. A co-director can only be appointed in this case and must meet the same requirements as the director.

- d) Those who participate in this call in the attraction modality will not be able to be directors of a research work in the project and ordinary modalities, nor those who at the closing date of this call are directors of a person with a pre-doctoral contract of the University of Valladolid's own programme in any of the modalities of the two calls immediately prior to this one (2022 and 2023).
- f) Failure to comply with any of the above requirements cannot be remedied and will lead to the exclusion of the applications concerned.
- 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 the applications concerned. This exclusion may only be remedied if, within the period established for remedies, the director chooses one of the applications. Failure to do so will result in the definitive exclusion of all the applications concerned without further action. However, the same person may appear as co-director of several applicants.

CHAPTER IV PRE-TRIAL

PROCEEDINGS

Article 13. 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 Electronic Notice Board of the University of Valladolid: https://sede.uva.es (Tablón oficial
- / Research).
- 2. The deadline for the submission of applications is 9.00 a.m. on the day following the publication of this call for applications in the BOCyL and ends at 2.00 p.m. on 19 July 2024 (local time in both cases).

Article 14. Form of submission of applications.

1. In view of the technical capacity of those interested in participating in this call, the application must be formalised through the Electronic Headquarters of the University of Valladolid, at the address https://sede.uva.es. You must access the citizen folder, and after identifying yourself, access the procedure <u>Call for predoctoral contracts of the University of Valladolid</u>. You must choose the option "Start process

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(online)", or continue the procedure if it has already been initiated in previous sessions. The aforementioned application shall be accompanied by the documents indicated in article 15 of this call for applications.

- 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 required may not exceed 10 MB.
- 3. Applicants who do not have an electronic signature can access this procedure by obtaining a user through the Unified Register of Applicants of the University of Valladolid (RUS) at the following address: <u>ACCESS RUS-UVA</u>. If the applicant is already a student or a member of the PTGAS/PDI of the University of Valladolid, RUS should not be used. Nor should it be used if you have a digital certificate, electronic ID or user of the Cl@ve system.
- 4. Applications submitted in this way shall have the same legal effects as those submitted in accordance with article 16.5 of Law 39/2015, of 1 October, on the Common Administrative Procedure of Public Administrations.
- 5. Applicants must check at the electronic headquarters (https://sede.uva.es), prior to filling in the documentation, that the computer equipment to be used to electronically register the documentation meets the minimum requirements.
- 6. The e-mail address <u>soporte-sede@uva.es</u> will provide assistance in resolving technical issues that may arise during the submission of applications.
- 7. A copy of the registered document can 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, he/she will be considered to have chosen the application submitted last, in accordance with the date and time of registration at this university, and any application submitted earlier will be considered invalid.
- 9. When an unforeseen technical incident or a necessary planned technical maintenance action has made the ordinary operation of the electronic office of the University of Valladolid or of the system or application corresponding to the General Electronic Register impossible, an extension of the unexpired deadlines may be agreed. If the technical incident occurs within the last twenty-four hours of the established deadline, this deadline shall be automatically extended by twenty-four working hours, counting from the end of this period. If, after the extension of this time limit, it is foreseen that the

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technical incident may persist beyond those twenty-four working hours, the competent body for each procedure may agree, expressly and with reasons, to extend the deadline under the terms of Article 32 of Law 39/2015, of 1 October. In all cases, both the technical incident 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. In parallel to the application on the University of Valladolid website, the candidate must register in the "CONVOCATORIA 2024 DE CONTRATOS PREDOCTORALES DE LA UNIVERSIDAD DE VALLADOLID", in the Banco Santander scholarship application, at the following address: www.becas-santander.com

Article 15. Content of applications.

- 1.- Applications must be accompanied by the following documents:
- a) Copy of the valid passport (only for foreign citizens not resident in Spanish territory). In the case of Spanish citizens or foreign citizens residing in Spanish territory, participation in this action will entail consent for the examining body to consult and verify the identity data included in the application, by means of the Identity Data Verification System, in accordance with the sole article, point 3, of Royal Decree 522/2006, of 28 April.
- b) Descriptive report of the original research work to be carried out during the period of the contract, with the approval of the person directing the research work, in accordance with the standard model Form 1. In the event that the figure of the co-director is required, in accordance with the provisions of Article 12, section 6c), the approval of the person co-directing the work will also be required.
- c) Applicant's educational and research history, limited to the assessable merits, in accordance with the standard form Form 2. The merits reflected in the applicant's history must be accredited with documentary evidence. 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, may the full text be included in PDF format. All the merits of the scientific scholar shall be included in a single document in PDF format accompanying Form 2 and shall not exceed 8 MB. The file name shall be: historial DNI.
- d) Personal academic certification corresponding to higher education studies at levels 2 and 3 of the Spanish Framework for Higher Education Qualifications (MECES) that the candidate has completed.
- i. Candidates who have completed higher education studies at MECES levels 2 and 3 at the University of Valladolid will not need to present a certificate.

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The managing body will have direct access to your personal transcript of records.

- ii. Applicants who have completed their higher education studies at MECES levels 2 and 3 in private institutions, or other Spanish public institutions other than the University of Valladolid, must provide official certification.
- iii. In the case of higher studies at levels 2 and 3 of the MECES carried out totally or partially in foreign university systems, the official academic certification of the issuing centre of the degree must be presented, to which the document of equivalence issued by the Ministry of Education and Vocational Training must be added. 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-university-graduates-at-foreign-centres/.

- iv. For the calculation of the average mark, the indications in Annex II of this call will be taken into account. Only Bachelor's degree/engineering/architecture or bachelor's degree qualifications will be taken into account, master's degree credits will not be valued.
- e) If applicable, official document accrediting disability equal to or greater than 33%.
- 2. The submission of the application will entail the authorisation 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 University of Valladolid, at the CSIC or at the CIBER, necessary for his/her identification as a beneficiary and for the assessment of merits. The evaluation of the dossier will be made with the documentation validated by the Doctoral School for the pre-registration and enrolment of the candidate, if he/she is already admitted to a doctorate.
- 3. It will not be necessary for the applicant to accredit the requirement of being enrolled or admitted to a doctoral programme. The information will be obtained from the institutional application of the University of Valladolid. Likewise, it will not be necessary to indicate the organisational unit to which the research director belongs, as this information will be obtained automatically by the administrative services.
- 4. The application history and the descriptive memory are considered essential parts of the application and their non-submission during the application period shall be irremediable. In the event that rectification, correction or clarification of these documents is requested, it will not be possible to subsequently update the information contained in these documents or alter the content of the document originally submitted. Only the documentation provided within the deadline for the submission of applications will be taken into account and it will not be possible to provide documents supporting new merits not initially declared. The merits claimed that are not supported by documentation will not be marked, with the exceptions provided for in paragraphs 2 and 3 above, and their possession must be accredited in

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the closing date for the submission of applications.

5. Submission of the application implies acceptance of the terms of the call for applications and consent to receive notification notices at the e-mail address indicated therein.

CHAPTER V

PROCEDURE FOR THE INVESTIGATION. AWARD DECISION AND MONITORING OF GRANTS

Article 16. Instruction and resolution of the procedure.

- 1. The competent body for the instruction and organisation of the procedure will be the Research Support Service of the University of Valladolid.
- 2. At the end of the deadline for the submission of applications, the head of the Vice-Rector's Office with responsibility for research, by delegation of the Rector, will publish the <u>provisional lists of persons admitted and excluded</u> on the Electronic Notice Board of the University of Valladolid, indicating in the latter case the reason for exclusion.
- 3. Both the applicants excluded and those omitted, the latter because they do not appear on either the lists of those admitted or excluded, will have a period of 10 working days, starting from the day following the day after the aforementioned publication on the Electronic Bulletin Board, to rectify the defects that have led to their exclusion or omission. The publication of these lists on the Electronic Bulletin Board of the University of Valladolid will serve as notification to the interested parties, for all purposes. Applicants who, within the aforementioned period, do not rectify the exclusion or do not argue against the omission produced, justifying their right to be included, will be definitively excluded from the selection process.
- 4. Once the period for rectification has elapsed, the head of the Vice-Rector's Office with responsibility for research, by delegation of the Rector, will publish on the same electronic notice board the resolution approving the <u>definitive list of those admitted and excluded</u>. A contentious-administrative appeal may be lodged against this resolution, as a qualified procedural act, within a period of two months, before the Contentious-Administrative Court of Valladolid, or, alternatively, an appeal for reconsideration, within a period of one month, before the Rector's Office itself. Both periods will be calculated from the day following the publication of the resolution.
- 5. Evaluation. The Research Commission of the Governing Council of the University of Valladolid, acting as the Selection Committee, is responsible for the study and application of the evaluation criteria, as established in Article 17 of this call. To this end, it will rely on the Advisory Committee, made up of 22 members distributed homogeneously among the five main branches of knowledge (Annex V). This Advisory Committee will issue a mandatory report, within a period of one month, prior to

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the motion for a decision referred to in paragraph 6 of this Article.

- 6. Distribution of places. First of all, applications that do not reach the minimum of 65% of the maximum score provided for in Article 17(1) will be rejected.
- 1. Unsuccessful applications shall not be taken into account in any way in the procedure for the allocation of contracts detailed below.
- a) First phase: for each of the contracts assigned to postdoctoral researchers included in Annex I, the candidate with the highest score will be proposed, as established in Article 17. With the rest of the candidates, a list of substitutes will be formed, ordered by decreasing score for each of the contracts of this modality.
- b) Second phase: the candidates with the highest scores who have justified the disability requirement will be proposed for recruitment until, added to the candidates selected in the first phase who also meet this requirement, the total of the 4 places reserved for this round is reached.
- c) Third phase: Applications from successful candidates in the previous two phases will be discounted. The Research Commission will distribute the available contracts in the two remaining modalities according to the proportion of these applications in each of the five branches of knowledge, but guaranteeing a minimum number of contracts for each of them, so that there is no major imbalance in the number of contracts allocated to each branch of knowledge.
- c) Fourth phase: The assignment of contracts in the project modality will be carried out. To this end, the applications for the project modality will be ranked in descending order of score and the candidates with the highest scores will be proposed for contracting until the maximum number of contracts for each branch of knowledge is reached, in accordance with the provisions of the Research Commission in the third phase. If the total number of contracts reserved for this modality is not filled, the unallocated contracts will be incorporated into the ordinary modality. Applications not assigned in this phase will be transferred to the ordinary modality, with the indication that they come from the project modality. Ties, if any, will be resolved as specified in Article 17.4 of this call.
- d) Fifth phase: The applications of the candidates selected in the previous phase will be discounted and the ordinary modality contracts will be assigned. The candidates with the highest scores in each branch of knowledge will be proposed for hiring until the number of contracts available for each branch of knowledge is reached, in accordance with the provisions of the Research Commission in the third phase. With the remaining unsuccessful candidates, a list of substitutes will be drawn up in descending order of score for each of the branches of knowledge. Any ties, if any, will be resolved as specified in Article 17.4 of this call.

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- 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 assessment criteria specified in this call, within the framework of the provisions of article 16.2 of Law 14/2011, of 1 June, and will be published on the Electronic Notice Board of the University of Valladolid. Allegations may be submitted to the Rector within 10 working days of its publication on the electronic notice board of the University of Valladolid. These allegations will be assessed by the Research Commission, which may request the relevant reports in this respect.
- 8. The rectoral resolution of this call for applications will be published on the electronic notice board of the University of Valladolid.
- 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. Those who come from the project modality will form part of the waiting list in both modalities, projects and ordinary, although in each of them they may occupy a different position, depending on their score. Substitutions will only be possible within six months of the publication of the final decision and after assessment by the Research Commission. The duration of the grant for substitutes will be for a period of four years from the signing of the contract, unless they have had a previous contract for the same purpose.
- 10. Beneficiaries must accept the grant and notify the date of incorporation within ten days of the publication of the final Resolution, by submitting the completed form Annex D through the electronic registry of the University of Valladolid. Failure to accept within the deadline will be understood as resignation from the contract. The incorporation to the post must take place within two 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 periods indicated, it will be understood as a resignation from the contract, unless the person concerned has requested an extension of the incorporation period and this has been authorised by the head of the Vice-Rector's Office with responsibility for research, following assessment by the Research Committee. In the case of persons with foreign nationality, the two months of incorporation will begin to be counted once the administrative procedures for foreigners have been resolved.

Article 17. Assessment criteria.

- 1. For all <u>categories</u>, applications will be evaluated out of 100 points according to the following merit assessment criteria:
- a) Standardised academic record of the degree and/or bachelor's degree; up to a maximum of 80 points. For standardisation, the procedure indicated in Annex III will be used.

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- b) Applicant's training and research record: up to a maximum of 20 points. The merits accredited on the standard form available as Form 2 will be evaluated, using the scale included in Annex IV.
- 2. In order to be eligible for contracts under this call, the evaluation obtained cannot be less than 65% of the maximum possible evaluation, set at 100 points.
- 3. For the attraction modality: Each researcher responsible for the attraction modality will issue a reasoned report for each of the candidates applying for the 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 article in the ordinary evaluation.
- 4. Tie-breaking rules: In the event of a tie in the last places, the tie-breaking criterion will be the highest mark obtained in each evaluation criterion, taken in the same order in which they are listed. If a tie persists, it will be awarded to the person of the gender least represented on 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 a reference the date and time of registration.

Article 18. Monitoring of aid.

- 1. In accordance with article 11.7 of Royal Decree 99/2011 of 28 January, modified by Royal Decree 576/2023 of 4 July, which regulates official doctoral studies, the academic committee of the doctoral programme 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 employment legislation.
- 2. The documentation mentioned in the previous paragraph will be checked in the University of Valladolid's institutional doctoral computer application from the day following the last day set for evaluation by the Doctoral School.

Article 19. Resolution period.

The time elapsed between the publication and the resolution of the call for applications may not exceed six months from the start of the application period for this call for applications, except in the legal cases of suspension or extension of the period due to contestation or other justifiable causes as determined by the Rector. The aforementioned period may be suspended for the time between the request for assessment to the Advisory Committee and the receipt of the report; in this case, the interested parties shall be notified in accordance with the legal provisions.

CHAPTER VI

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GENDER AND DATA PROTECTION

Article 20. Gender issue.

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

Article 21. Data protection.

- 1. The personal data resulting from this call for applications will be treated confidentially and will be incorporated into processing files owned by the University of Valladolid, for the purpose of resolving the call for applications. They will be kept for the time necessary to fulfil this purpose and the data of the contracts awarded will be kept for the purposes of certification and statistics as appropriate.
- 2. The personal data protection information document is incorporated as Annex V to this call for proposals.

CHAPTER VII SYSTEM OF APPEALS AND EFFECTS OF THE DECISION

Article 22. Appeals against the decision.

- 1. This decision, which puts an end to administrative proceedings, may be appealed against by means of an appeal for reconsideration or directly challenged in the contentious-administrative courts.
- 2. An appeal for reversal may be lodged with the Rectorate of the University of Valladolid, within a period of one month from the day following its publication in the "Official Gazette of Castilla y León", in accordance with the provisions of articles 123 and 124 of Law 39/2015, of 1 October.
- 3. The contentious-administrative appeal may be lodged before the Contentious-Administrative Court of Valladolid, within two months from the day following its publication in the "Official Gazette of Castile and Leon", in accordance with the provisions of Articles 9.1.c) and 46 of Law 29/1998, of 13 July. 4. When the call for applications has been appealed by means of an appeal for reconsideration, a contentious-administrative appeal may not be lodged until the appeal for reconsideration has been expressly resolved or has been rejected by administrative silence.

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Article 23. Effects of the resolution.

This decision shall take effect from the day on which the deadline for the submission of applications begins.

Valladolid, 15 June 2024 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) The
Vice-Rector for Research
Mr Enrique Baeyens Lázaro

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ANNEX I

LIST OF POSTDOCTORAL RESEARCHERS WHO HAVE BEEN ASSIGNED A PRE-DOCTORAL CONTRACT.

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

REFERENCE: MZAMBRANO1

Researcher in charge: María Celina Bermúdez Árias.

Topics to be developed for the choice of doctoral thesis:

A new line of research will be opened that aims to use artificial intelligence techniques (machine & deep learning) in combination with the latest technical advances in rotational spectroscopy to advance the detection of new chemical species in interstellar space.

Using artificial intelligence methods, the chemical characteristics of the species detected in space will be analysed to generate a model that can predict whether or not a molecule has the potential to be present in different stellar objects. Molecules with a high potential to be present will be analysed using the latest advances in rotational spectroscopy in order to confirm their presence in space. The aim is to put the model into online production, as well as a website with the database that feeds the model.

In addition, these techniques will be used to improve different phases of rotation spectra analysis by creating models that visually identify patterns to aid in their assignment.

Expected profile of the 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.

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REFERENCE: MZAMBRANO2

Researcher in charge: Alberto Díez de la Varga

Topics to be developed for the choice of doctoral thesis:

The PhD thesis will be oriented towards 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 cucurbituryls and two functionalised units with chromophores as hosts.

Other lines of research within the study of host-host interactions are those involving different types of polyaromatic compounds.

Expected profile of candidates: A candidate with, if possible, research experience in organic and inorganic synthesis and advanced structural characterisation techniques is sought.

Minimum requirements:

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

Desirable requirements:

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

Desirable skills:

- Synthesis techniques (work in inert atmosphere, low temperature, ...).
- Separation techniques (chromatography, crystallisation, ...).
- Characterisation 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 centres) and participation in scientific congresses will be encouraged.

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REFERENCE: MZAMBRANO3

Researcher in charge: Beatriz González del Río

Topics to be developed for the choice of doctoral thesis:

The aim of this work is to provide a set of physical and chemical insights useful for different applications of solid/liquid/gas interfaces by exploring complex molecular and atomic interactions through molecular dynamics. First-principles studies based on density functional theory (DFT) combined with deep learning techniques will be used to perform large-scale simulations that will allow us to analyse, at the atomic and electronic level, the processes occurring at a diverse set of interfaces. In particular, two types of applications will be studied: 1) Hydrogen storage at the gas/solid interface of Mg-Zn alloys and nanoporous materials; and 2) Bubble formation, tritium capture and sputtering at the liquid/gas interface of liquid Li-Sn and Li-Pb metal alloys due to helium and hydrogen isotopes in fusion reactors. The study of these specific interfaces will pave the way for the development of green energy technologies.

Expected profile of candidates: The candidate should have a bachelor's and master's 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 taken into account. It is very important to have a good level of English, both written and spoken.

REFERENCE: MZAMBRANO4

Researcher in charge: Xavier Paredes Méndez

Topics to be developed for the choice of doctoral thesis:

Thermophysical properties of fluids for energy transition.

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 for this transition.

Objectives. Characterisation of: 1) ionic liquids; 2) hydrogen-bearing compounds; 3) mixtures of hydrogen-bearing compounds and ionic liquids.

Expected profile of the candidates: The academic record and experience of the candidate in the area of the proposal or related areas will be valued.

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- Necessary requirements: Degree in Engineering, Chemistry or Physics. Good level of English, with high reading skills.
- Desirable requirements: Knowledge of thermodynamics. High level of English.

REFERENCE: SENUVA1

Researcher in charge: Alberto Tena Matías

Topics to be developed for the choice of doctoral thesis:

- > Development of new polymeric materials
- ➤ Processing of the materials as separation membranes by different techniques (down to thicknesses <100 nm)
- Characterisation of separation properties (hydrogen purification, co2 capture, liquid separation, recovery of valuable elements, etc.).
 added...)

Profile expected of candidates: Enthusiastic and hard-working person with a desire to train in a multidisciplinary field. Applicants with a background in chemistry, physics or chemical engineering are therefore eligible for this position.

REFERENCE: RyC1

Researcher in charge: 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 characterisation of respiratory pathologies; 2) design, implementation and comprehensive evaluation of automatic models based on *machine learning* and *deep learning* to aid the diagnosis of respiratory pathologies; 3) intelligent analysis of clinical data using *big data* approaches in search of precision medicine in the context of respiratory sleep disorders.

Expected profile of the candidates: Both the candidate's academic record and previous experience in the field of research (time spent and scientific production) will be taken into account. The candidate must have completed a degree in Engineering, Mathematics, Physics or other degree with competences in

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data and time series analysis, artificial intelligence and programming languages. A background in Biomedical Engineering would be an asset. 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 would also be an asset: Matlab, Python, R.

REFERENCE: RyC2

Researcher responsible: Biagio Mandracchia

Topics to be developed for the choice of doctoral thesis:

One of the key benefits of using neural networks in biomedical imaging is the ability to localise areas of interest in real time. By enabling rapid identification of these areas of interest, it is possible to increase diagnostic efficiency and reduce the workload on healthcare professionals. In addition, early detection of blood infections is essential for timely treatment of diseases. However, traditional methods can be slow and error-prone. The aim of this work will be to improve blood Deep implementing infection detection by learning-based computational for multidimensional biomedical tools image processing.

In this context, the objectives of the PhD work will be: 1) The design and implementation of innovative neural networks capable of adapting image processing according to the biology of the observed object; 2) The development of a workflow for biomedical image acquisition and processing with a focus on speeding up normally time-consuming tasks and increasing diagnostic accuracy; 3) The application of the developed tools to the study of the life cycle of *Babesia divergens* and other systems of medical interest.

The work is part of a ministerial project for the development of an innovative correlative microscopy system in collaboration with the Instituto de Salud "Carlos III".

Profile expected of candidates: The candidate should have a degree and a Master's degree in Engineering or Science. Experience in artificial intelligence and neural networks is not required, but will be taken into account. The

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candidate must 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 important to have a good level of English, both written and spoken.

REFERENCE: RyC3

Researcher in charge: Federico Camerin

Topics to be developed for the choice of doctoral thesis:

The general theme to be developed responds to the urgent need to provide urbanistic support for the concept of Baukultur, promoted by both the European Union and the Spanish Government in Law 9/2022, of 14 June, on the Quality of Architecture, whose urbanistic dimension has hardly been explored. The research to be carried out is committed to providing a support based on a better knowledge of the contemporary urban culture of Spanish cities, particularly medium-sized ones, through the comparative study of a relevant number of cases, including cities of relevant size. The aim is to obtain selective and applicable knowledge that reveals the relevance of recent urban planning and governance practices in a defined field of study, that shows their common components, and that advances in their generalisable and replicable potential, in a global context that is nourished by local urban cultures. Within this broad framework, among the more specific topics to be developed in symbiosis with the Baukultur for inclusion in the doctoral thesis, the pre-doctoral candidate will work in close collaboration with his/her thesis supervisor on related topics, in particular the Ramón y Cajal research project entitled "Military Properties in Europe: Regeneration Strategies and their Effects on Socio-Spatial Production Processes". The aim is to explore the role of military installations in the process of city building, in particular their relationship with urban regeneration operations today. It will seek to understand the processes of urban change, as yet little explored, that are associated with the transformation of military installations that have been sold and are in a state of abandonment in Europe, with special attention to the Spanish case, also through comparative studies with other installations from other uses (industrial, railway, etc.).

Expected profile of candidates: The pre-doctoral candidate will have a Bachelor's/Degree in Architecture or related degrees/degrees and an official university Master's Degree in Architecture or related fields. Preferably, the candidate will have some command of computer tools in the field of Geographic Information Systems (GIS) and related areas, as well as some knowledge of other

techniques and programmes oriented towards the development of research in architecture and

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urban planning (e.g. Adobe Creative Cloud, Autocad, BIM...).

Likewise, it will be positively valued that the candidate justifies his/her participation in congresses, conferences and scientific meetings, research stays, specialisation courses, scientific publications, academic scholarships, all in lines related to the expected profile, as well as the demonstration of a good level of English, with high reading and writing skills (with accreditation equivalent or higher than B2 level).

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

REFERENCE: RyC4

Researcher in charge: Juan Francisco Fuentes Pérez

Topics to be developed for the choice of doctoral thesis:

Optimisation of Sensory Networks for Monitoring River Ecosystems:

Exploration and improvement of sensor technologies to obtain accurate and real-time data for better decision making in water resources management.

Advanced Algorithms for Environmental Data Management:

Development and application of algorithms that efficiently process and analyse the environmental data collected, facilitating the identification of patterns and prediction of trends that will influence adaptive management decisions.

Data-driven Adaptive Management Strategies:

Formulation of management models using data analysis to adapt the use and conservation of river resources to climatic and other environmental changes, ensuring sustainability.

Impact of Management Strategies on Ecosystem Services:

Assessment of how the strategies implemented affect the provision of ecosystem services and the balance between different water uses.

Integration of Multiscale Information in Ecosystem Management:

Combining data from different sources and scales (field data, sensors, satellite imagery) to create a holistic management system to improve efficiency in the management of aquatic ecosystems.

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Expected profile of candidates:

- Academic background: Master's degree in Forestry, Agronomy, Industrial Engineering or similar; Biological or Environmental Sciences; Information and Communication Technologies; Ecohydraulics, Ecohydrology, or related areas.
- Technical skills: Experience in programming (preferably Python), data processing, with a positive assessment of machine learning and artificial intelligence.
- Interpersonal skills: Excellent communication skills, ability to work in a team with multidisciplinary specialists, and a good level of written and spoken English.
- Goal-oriented and proactive attitude: Ability to set and achieve clear goals, with a strong interest in learning new technologies and methodologies that drive innovation and efficiency in the project.

REFERENCE: RyC5

Researcher in charge: María Jesús Rodríguez Triana

Topics to be developed for the choice of doctoral thesis:

The use of learning analytics has been heralded as a scalable solution for evidence-based decision making and for personalising education to account for learner variability. However, the literature shows that developments in this area have low adoption in the classroom, in part due to a lack of confidence on the part of end-users (e.g. teachers and students). In addition, most of the available tools are still based on traditional data sources, such as user traces, offering a partial view of the teaching-learning processes, conditioning the reliability of the results. This leads to the following questions: Would a focus on stakeholder values and needs help to foster the acceptance and adoption of learning analytics? What complementary data collection and analysis methods can contribute to non-intrusive and reliable tools?

This doctoral thesis will be carried out within the transdisciplinary research group GSIC-EMIC (https://www.gsic.uva.es/), a Recognised Research Group (GIR) and a Consolidated Research Unit (UIC) by the Junta de Castilla y León, of recognised prestige at international level in the field of the educational technologies. This new line of research will attempt to address precisely this challenge: how the latest developments in *Data Science* and

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Artificial Intelligence (AI) can benefit from human-centred methodologies, thus fostering their adoption. Thus, the thesis may focus on the development of technologies, methods for putting users at the centre of tool design/implementation and evaluation, specific AI models for application in educational contexts, processes for building actionable and reliable tools, as well as the evaluation of their impact on teaching-learning processes.

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 programmes of the University of Valladolid:

- A person with a background in computer science or related engineering, preferably with experience in data science, machine learning or other AI approaches, willing to work with end-users and examine quantitative and qualitative empirical data from them. Experience in issues related to collaboration between people and AI will be an additional asset when assessing the candidate.
- 2. A person with a background in pedagogy or educational sciences, psychology or education and experience in multiple methods of qualitative and quantitative data collection and analysis, with an interest in the application of technological innovations in educational contexts. Experience in topics related to learning analytics or artificial intelligence tools applied to education will be an additional merit when assessing the candidate.
- 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 in creating low-fidelity and high-fidelity prototypes. Experience in human-centred design techniques and value-responsive design will be an additional asset when assessing the candidate.

REFERENCE: RyC6

Responsible researcher: Amanda Steber

Topics to be developed for the choice of doctoral thesis:

In the course of the doctoral work, the candidate will use microwave spectroscopy and electrical discharge sources to investigate chemical reactions that produce molecules relevant from the point of view of astrochemistry. The results will be used to search for new species and

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It will also have the opportunity to build instruments combining microwave spectroscopy, buffer gas cell technology and combustion chemistry. It will also have the opportunity to build instruments combining microwave spectroscopy, buffer gas cell technology and combustion chemistry. This instrumentation will be evaluated and used to investigate pollutants released after a combustion reaction.

In the course of the PhD work, the candidate will use microwave spectroscopy and electrical discharge sources to investigate the chemical reactions that produce astrochemically relevant molecules. The results will be used to look for new and novel species in the interstellar medium through collaborations with astronomers, while at the same time, being used to improve astrochemical models. The individual will also have a chance to build instrumentation that pairs together microwave spectroscopy, buffer gas cell technology, and flame chemistry. This instrumentation will be benchmarked and used to investigate the pollutants that are released upon a combustion reaction.

Expected candidate profile: The candidate should have a master's degree in chemistry or physics, enjoy both practical and computer work, and some basic knowledge of programming and spectroscopy would be beneficial. A basic level of English would be an asset.

The candidate should have a Master's degree in chemistry or physics, enjoy both hands-on and computer work, and it would be beneficial if the candidate has some knowledge of programming and spectroscopy. It would also be advantageous if the candidate spoke a basic level of English.

REFERENCE: RyC7

Researcher in charge: Cristina Tejedor Rodríguez

Topics to be developed for the choice of doctoral thesis:

- (1) To generate a contrasted interpretative model on the diachronic variability of funeral-ritual practices and the politics of death, in relation to the geographical and chronological context.
- (2) Determine whether there is indeed a diachrony of inequality, identifying possible patterns of differentiated behaviour in accessing these funerary spaces.
- (3) Design and disseminate adequate and renewed methodological protocols for the excavation, documentation and post-processing of the archaeological record from these contexts.

Profile expected of candidates: Bioarchaeology; Chronostratigraphy; GIS and spatial analysis; Inferential and Bayesian statistics.

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REFERENCE: RyC8

Researcher responsible: Beatriz Molinuevo Salcines

Topics to be developed for the choice of doctoral thesis:

The agricultural and livestock sector is the main contributor to ammonia emissions and contributes 12% of GHG emissions in Spain. The harmful effects on the environment and human health of these emissions and strict European policies make it necessary to reduce them, thus favouring the circular economy. The quantification of emissions is relevant both for obtaining data for emission inventories and for determining the best techniques for reducing these emissions. Although there is a wide variety of methods to quantify emissions, there is no single criterion or methodology for such measures, so the most appropriate method should be chosen based on the objective of the study.

This thesis proposal aims to quantify ammonia and GHG emissions in the agrolivestock sector. The points to be developed would be the following:

- 1. Identify sources of ammonia and GHG emissions in the livestock sector and in agricultural systems.
- 2. Apply material balances, indirect methods and direct methods for the quantification of emissions.
- 3. To evaluate the evolution of emissions at the different sources throughout the year and to determine their relationship with atmospheric parameters.
- 4. Development of technologies for nutrient recycling and recovery.

Expected profile of candidates:

Minimum requirements for pre-doctoral candidates:

- Degree in Biology, Chemistry, Agricultural and Rural Engineering, Forestry and Environmental Engineering, Agricultural and Food Industry Engineering, Chemical/Environmental Engineering or related fields.
- Official university master's degree in

related areas. Desirable predoctoral candidate

requirements:

- Proficiency in English at a level equivalent to or higher than B2.
- Teamwork skills.
- International mobility for research stays and participation in scientific conferences.

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REFERENCE: BG1

Researcher in charge: Omar Motiño García-Miguel

Topics to be developed for the choice of doctoral thesis:

Liver cancer is the third most common cause of cancer death in 2020. There are two types of liver cancer, hepatocellular carcinoma (HCC), which accounts for 90% of primary tumours, and the remaining 10% is cholangiocarcinoma (CCA). There are currently effective treatments that increase the quality and survival of HCC patients; however, there are no effective therapeutic strategies for HCC. It is known that autophagy plays a protective role against various liver pathologies. In this sense, the aim of the project is to explore new strategies focused on the pharmacological activation of autophagy in in vitro and in vivo models, which could have therapeutic potential to prevent and/or reverse HCC. We will also address the molecular mechanisms involved in the development and progression of CCA in the context of such activation. Furthermore, we will study whether there is a correlation of these molecular mechanisms with the progression of CCA in human samples.

Expected profile of candidates: The candidate's academic record and previous experience in the field of biomedical research, and specifically in the field of hepatic physiopathology, will be assessed. The candidate must have completed a degree in the area of Health Sciences. The candidate must demonstrate a good level of English, with high reading and writing skills.

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ANNEX II

CALCULATION OF THE AVERAGE GRADE OF THE FILE

- 1. For studies in Spanish institutions
- a) The calculation of the average mark will be based on the numerical scale of 0-10, established in article 5 of Royal Decree 1125/2003, of 5 September, which establishes the European credit system and the system of qualifications for official university degrees valid throughout the national territory and in paragraph 4.3.4 of the annex to Royal Decree 1044/2003, of 1 August, which establishes the procedure for the issue by universities of the European Diploma Supplement.
- b) The average marks of degrees obtained in courses taken at two or more universities <u>must contain the total number of subjects</u>, their grades and credits passed.

In these cases, validated subjects will have the equivalent number of points corresponding to the grade obtained at the centre of origin. With regard to adapted subjects, the grade obtained at the centre of origin will be taken into account, and the recognition of credits in which there is no grade or which correspond to training activities that are not part of the syllabus 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 5 September.

If the transcript includes only the qualitative qualification, the calculation of the average mark will be carried out taking into account the evaluation of each of the different qualifications, which for this call will be as indicated in the following table:

Honours	Outstanding	Notable	Approved
10 points	9.25 points	7.75 points	5.75 points

- c) In any case, the average mark of the academic record of the studies accredited for 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 a situation other than those mentioned above, the examining body shall determine the average mark by analogy, safeguarding the principle of fairness.
- 2. For studies taken in foreign institutions.

In the case of qualifications obtained for studies carried out partially or totally in foreign university systems, whether or not they have been adapted 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.

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Information on equivalences is available to users on the portal: https://www.universidades.gob.es/equivalencia-de-notas-medias-de-estudios-universitarios-realizados-en-centros-extranjeros/

Any questions or queries should be addressed to the following e-mail address: notamedia.uni@universidades.gob.es.

The applicant shall provide the "Declaration of equivalence of average marks" 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, where appropriate, the corresponding translation.

ANNEX III

OBTAINING THE STANDARDISED AVERAGE GRADE OF THE FILE

- 1. For the normalisation, the average mark of the graduated students published by ISCED, general mark, will be used, distinguishing between studies carried out in Spanish centres (https://www.universidades.gob.es/wp-content/uploads/2023/07/notas-medias-isced.pdf).y centres foreign centres (https://www.universidades.gob.es/wp-content/uploads/2023/07/notas-medias-extranjeros.pdf).
- 2. If X is the average mark of the applicant's transcript between 0 and 10 points and M is the overall average mark of the graduates of a degree course published by ISCED, either for studies carried out in a Spanish institution or in a foreign institution, the standardised average mark of the transcript Z between 0 and 80 points will be obtained by applying the following formula:

$$Z = 56 * (10 - M) * X / (3 * M + (7 - M) * X).$$

ANNEX IV

ASSESSMENT CRITERIA FOR THE EVALUATION OF EDUCATIONAL AND RESEARCH BACKGROUND

The criteria for the evaluation of the educational and research background of each applicant are set out in the following table:

	Section	Maximum
1	Extraordinary awards	4,0
2	Other official qualifications or specialised training courses	2,5
3	Scholarships obtained for academic merit	4,0
4	Accredited languages	1,5

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	Section	Maximum
5	Publications	5,0
6	Stays at research centres and participation in congresses	3,0

- 1) Only extraordinary awards of the Bachelor's Degree / Diploma / Bachelor's Degree / Master's Degree, required for access to the doctoral programme of the applicant, will be valued. The extraordinary award for the Diploma / Degree with 2.5 points, the Bachelor's degree with 4 points and the Master's degree with 1.5 points.
- 2) The following contributions will be valued in this section:
- a) Official Bachelor's / Diploma / Bachelor's or Master's degrees (other than those required for access to doctoral studies) exclusively in areas scientifically related to the area of reference of the doctorate, at a rate of 1.5 points each.
- b) Scientific specialisation courses scientifically relevant to the line of research of the Project or to 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 specialisation equal to or higher than level B2 will be assessed according to the following scale: B2, 0.5 points; C1, 1.0 points and C2, 1.5 points.
- 5) The following contributions will be valued in this section:
- a) Publications in indexed journals. They will be assessed 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 (WoS or Scopus) and in journals recognised 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 at an international conference).
- c) Participation in congresses, conferences and scientific meetings (duly justified): up to a maximum of 0.5 points for each one. Training stays in prestigious centres: up to a maximum of 1.5 points each (attainable for a 3-month stay in a leading international centre in the field of the project). In all cases, only activities carried out during the postgraduate period will be assessed.

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ANNEX V ADVISORY COMMITTEE

The advisory committee is made up of the persons listed below, classified in the five branches of knowledge:

- a) Arts and humanities
- i. María del Carmen Gierden Vega (German Philology).
- ii. Antonio Cabeza Rodríguez (Modern History).
- iii Enrique Serrano Cañadas (Physical Geography)
- iv María del Amor López Jimeno (Greek Philology)
- b) Science
- i. Pedro César Álvarez Esteban (Statistics and Operations Research).
- ii. Ismael Barba García (Electromagnetism).
- iii Ascensión Sanz Tejedor (Organic Chemistry).
- iv Fernando Gómez Cubillo (Mathematical Analysis).
- c) Health sciences
- i. María Ángeles Gómez Niño (Cell Biology).
- ii. Rocío Aller de la Fuente (Medicine).
- iii Alberto López Miguel (Ophthalmology).
- iv José Manuel Marugán de Miguelsanz (Paediatrics).
- d) Social and legal sciences
- i. Alfonso Jorge García Monge (Didactics of Corporal Expression).
- ii. Segismundo Samuel Izquierdo Millán (Business Organisation).
- iii Antonio Jabato Martín (Criminal Law)
- iv Susana Andrés del Campo (Audiovisual Communication and Advertising)
- e) Engineering and architecture
- i. Pilar Tiedra Frontaura (Materials Science and Metallurgical Engineering).
- ii. Luis Felipe Acebes Arconada (Systems and Automation Engineering).
- iii. María Rosa González García (Plant Production).
- iv Antolín Lorenzana Iván (Continuous Media Mechanics)
- v María Dolores Bermejo Roda (Chemical Engineering)

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vi Juan José Fernández Martín (Architectural Graphic Expression).

ANNEX VI

INFORMATION ON THE PROCESSING OF PERSONAL DATA

Call 2024 for pre-doctoral contracts at the University of Valladolid, co-funded by Banco Santander.

1. Responsible for processing University of Valladolid.

CIF: Q4718001C.

Address: Plaza del Colegio de Santa Cruz, 8 - 47002 Valladolid Responsible for privacy: responsable.privacidad@uva.es Delegado de protección de datos: delegado.protección.datos@uva.es.

2. Data protection officer.

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

He can be contacted at delegado.proteccion.datos@uva.es.

3. Purposes for which personal information is collected.

The data are used for the administrative management and processing of the grants covered by this call for proposals.

4. Legal basis for processing.

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

The promotion of scientific research and technological development in the university sphere shall 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 programmes.

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

Likewise, the official publication of personal information in the National Grants Database, in official bulletins and/or bulletin boards, and on the transparency portal of the

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University of Valladolid, are based on:

- a) Law 39/2015, of 1 October, on the Common Administrative Procedure of Public Administrations.
- b) Law 19/2013, of 9 December, on transparency, access to public information and good governance.
- c) Law 3/2015, of 4 March, on Transparency and Citizen Participation of Castilla y León.
- d) Law 38/2003 of 17 November 2003 on General Subsidies.
- 5. Compulsory transfers of data

The successful candidates will be published on the official notice board of the electronic headquarters of the University of Valladolid.

6. Data retention period

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

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

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 post addressed to:

Privacy Officer.

Plaza del Colegio de Santa Cruz, 8 - 47002 Valladolid

Where appropriate, supporting documentation must be provided:

- a) Proof of the identity of the person concerned by means of any valid document, such as ID card or passport.
- b) Name and surname of the person concerned or, where appropriate, of the person representing him/her, as well as the document accrediting such representation.
- c) The request in which the application is made.
- d) Address for notifications, date and signature of the applicant.

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- e) Documents supporting the request being made, if applicable.
- f) In the case of rectification or erasure, indication of the data to be rectified or erased and the reason for it.
- 8. Competent authority for lodging complaints

In the event that you wish to lodge 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 (Agencia Española de Protección de Datos, Jorge Juan, 6 28001-Madrid).

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