



## Public Call for Applications for the Recruitment of Pre-doctoral Research Personnel in Training (PIPF)

### Marie Skłodowska-Curie Actions (MSCA) Doctoral Network call 2024

#### RULES OF THE CALL 2024PIPF-MSCA

##### 1. Statement of Purpose

The Universitat Politècnica de València (UPV) and the Department of Animal Science offer a doctoral fellowship in: “**Optimization of shrimp diet formulation under BFT**”. The fellowship is part of the Doctoral Network project **HORIZON-MSCA-2024-DN-01-GRANT AGREEMENT Project-101226312**, under the acronym **SwitchFloc**, funded through the **Marie Skłodowska-Curie Actions (MSCA) Doctoral Networks 2024** call.

The doctoral project is part of a network of 11 doctoral theses contributing to the overall objective of training a new generation of excellent researchers capable of addressing current and future challenges in sustainable aquaculture production and leading the implementation of Biofloc Technology (BFT) in Europe.

This particular doctoral thesis is included within **WP1 – Sustainable Aquaculture**. The PhD candidate will enrol in the *Doctoral Programme in Animal Production Science and Technology* of the Department of Animal Science and Technology at the Universitat Politècnica de València, under the supervision of **Silvia Martínez Llorens** (ORCID: 0000-0002-9824-3267).

The objectives of the PhD position are to determine, for *Penaeus vannamei* reared under BFT systems, the optimal diet formulation aimed at maximizing fishmeal substitution through the use of alternative animal and plant protein sources. To improve the physicochemical properties and reduce the production costs of the newly formulated sustainable diets, the first secondment will be carried out at **VRM Srl Naturalleva**.

After defining the optimized diets and physicochemical characteristics, bioactive compounds and additives will be evaluated in order to enhance protein digestibility and intestinal health. For this purpose, an additional secondment will be conducted at the **Universidade do Porto**. Following this final optimization stage, the optimal feeding regime will be established. Finally, the effect of microalgae supplementation on shrimp performance will be assessed, including its impact on the immune system, growth performance, and water quality.

In addition to the doctoral thesis activities, the PhD candidate is expected to contribute to the outcomes of the **SwitchFloc** project, particularly to the objective of **WP1**: improving the feeding efficiency and sustainability of BFT systems by at least 15% through the inclusion of alternative raw ingredients and/or bioproducts in diet formulation.

##### 2. Applicable Regulations

- Organic Law 2/2023, of 22 March, on the University System.
- Law 14/2011, of 1st June, on Science, Technology and Innovation, amended by Law 17/2022, of 5th September.
- Royal Decree 103/2019, of 1st March, approving the Statute of Predoctoral Research Personnel in Training.
- Royal Decree 99/2011, of 28th January, regulating official doctoral studies, amended by Royal



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Decree 576/2023, of 4th July.

- Decree 122/2024, of 24th September, of the UPV Council, approving the Statutes of the Universitat Politècnica de València.
- Marie Curie Programme – HORIZON TMA MSCA Doctoral Networks.

### **3. Terms and Conditions**

#### **3.1 List of Contracts**

One predoctoral contract is hereby announced by the Department of Animal Science, under the conditions set out in **Annex I** attached to these terms and conditions, within the framework of the **Marie Skłodowska-Curie Actions (MSCA) Doctoral Networks 2024** programme.

#### **3.2 Eligibility Requirements**

In accordance with the provisions of the Marie Curie Programme, applications may be submitted by candidates of any nationality, provided that all other requirements established in the applicable regulations are met:

- Applicants must hold the required academic degree, or fulfil the conditions necessary to obtain it by the closing date for the submission of applications, in accordance with the specific characteristics and requirements of each offered contract.
- Applicants must be at least 18 years of age and must not have reached the legal retirement age.
- Applicants must possess the functional capacity required to perform the duties associated with the position.
- Applicants must not have been dismissed from service in any public administration through disciplinary proceedings, nor be disqualified from performing public functions.
- Applicants must not be subject to any incompatibility condition established under Law 53/1984, of 26th December, on Incompatibilities of Personnel at the Service of Public Administrations, and Law 21/1987 on incompatibilities of personnel of the Generalitat Administration.
- Applicants must comply with the MSCA mobility rule: researchers must not have resided or carried out their main activity (work, studies, etc.) in Spain for more than 12 months during the 3 years immediately prior to the recruitment date.
- Applicants must qualify as Early-Stage Researchers (ESR): at the date of recruitment, researchers must not yet have been awarded a doctoral degree and must be within the first four years (full-time equivalent) of their research careers. Research experience is measured from the date on which the researcher obtained the degree entitling them to embark on doctoral studies, either in the country where the degree was obtained or in the country where the researcher is recruited, irrespective of whether or not a doctoral degree was sought.
- Applicants must meet the requirements necessary to enrol in a UPV doctoral programme <https://www.upv.es/entidades/edoctorado>.

#### **3.3 Submission of Applications and Supporting Documentation**

Applicants who meet the eligibility requirements for any of the PIPF contracts must complete and submit their applications exclusively by electronic means, except in the case referred to in section 2.2, through the form entitled “*Application for Admission to Selection Procedures at UPV (PTGAS/PI)*”, available at the Electronic Headquarters of the Universitat Politècnica de València at the following website: <https://sede.upv.es>

Access to this form requires electronic identification of the applicant, in accordance with the provisions of Article 14 of Decree 3/2017. Therefore, applicants must possess one of the electronic identification systems described in the corresponding annex.



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To complete the application process, applicants must carry out the following steps within the established deadline:

- a) Electronically identify themselves through the Electronic Headquarters.
- b) Access and complete the electronic application form.
- c) Pay the applicable fee, either electronically or by bank payment receipt.
- d) Electronically register the application.

The electronic application submission process for admission to the selection procedure includes the payment procedure for the corresponding application fees. Therefore, payment of such fees must not be made through any other method, except in the exceptional cases contemplated under the section "technical exceptionality", for which the payment procedure established therein shall apply.

Applicants who have paid the application fee but have not electronically registered their application shall not be admitted and will be excluded from the selection process, without prejudice to the provisions set out in the following section.

#### Technical Exceptionality

If, due to exceptional technical reasons attributable to the Universitat Politècnica de València, it is not possible to complete the application electronically for a prolonged period within the established deadline, interested applicants may submit their application by non-electronic means. In such cases, applicants must complete the following steps within the prescribed deadline:

- a) Download and print a blank application form available at the following website: <http://www.upv.es/entidades/SRH/conypi/indexnormalc.html>
- b) Complete and sign the form by hand.
- c) Pay the corresponding application fee. The fee for admission to this selection process, specified in the annex for each contract, must be paid into the CaixaBank account number: **ES49 2100 7084 5113 0002 1698 – Examination Fees** by bank deposit or transfer. Applicants must attach proof of payment of the examination fees to the application.
- d) Submit the application and the required documentation in person, either at the General Registry of the Universitat Politècnica de València, the Registry of the Higher Polytechnic School of Alcoy, the Registry of the Higher Polytechnic School of Gandia, or through any of the means established in Article 16.4 of the Law on the Common Administrative Procedure of Public Administrations.

Applicants who submit their application in person through the procedure described above, without demonstrable circumstances of technical exceptionality, shall not be admitted and will consequently be excluded from the selection process.

Foreign applicants who do not possess any of the electronic identification systems described above may submit their applications in accordance with the procedure established for cases of technical exceptionality

If the application is submitted through a post office, it must be presented in an open envelope so that the postal officer can date and stamp the application before certification. Failure to comply with this procedure will result in the application being considered submitted on the date it is received at any of the locations referred to above.

Applications submitted from abroad may, within the deadline established in section 2.7, be filed through Spanish diplomatic or consular representations abroad, which shall forward them to the competent authority.

In accordance with Article 18.1-2 of Law 20/2017, of 28 December, of the Generalitat Valenciana, on fees, the following applicants are exempt from payment of the application fee:



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- a) Members of large families classified under the special category or single-parent families classified under the special category.
- b) Victims of violence against women who can prove such status through any of the means of evidence established under the regional regulations against violence against women in the Valencian Community
- c) Persons with disabilities with a degree of disability equal to or greater than 33%
- d) Persons in situations of social exclusion, duly accredited by the competent social welfare authority of the municipality of residence.

Applicants exempt from payment of the fee must attach supporting documentation proving such condition. This documentation must be uploaded under the corresponding tab for “other requirements” in the “documentation” section of the application.

Failure to provide proof of payment of the participation fee or proof of exemption shall result in exclusion from the selection process.

Under no circumstances shall the submission and payment made at the corresponding banking offices replace the obligation to submit the application correctly and within the established deadline.

In accordance with Article 1.2-6 of Law 20/2017, of 28th December, of the Generalitat Valenciana, on fees, application fees shall not be refunded when improper payment is attributable exclusively to the applicant.

The deadline for submitting applications shall be twenty working days counted from the day following the publication of the corresponding recruitment offer on the website of the Vice-Rectorate for Human Resources and Organisation of the University (hereinafter, “the website”): <https://www.upv.es/entidades/SRH/conypi/590724normalc.html> (Research Personnel Selection Calls).

The call shall also be published on the Electronic Headquarters of the University: <https://sede.upv.es/> – announcements section (hereinafter, “the Electronic Headquarters”).

Once the submission deadline has expired, the provisional list of admitted and excluded applicants shall be published on the website, granting a period of five working days from the day following publication for the correction of errors. If all applicants are admitted, the provisional lists shall automatically become final.

After the expiry of the aforementioned correction period, the final list of admitted and excluded applicants shall be published on the website.

Publication on the website of the Vice-Rectorate for Human Resources and Organisation shall constitute official notification to applicants, in accordance with Article 45.1.b of Law 39/2015, and shall serve as the reference date for the calculation of deadlines

### Supporting Documentation

To be admitted and, where applicable, take part in the selection process, applicants must meet the participation requirements established in these rules.

Applicants must complete the application through the form entitled “*Application for Admission to Selection Procedures at UPV (PTGAS/PI)*”, available at the Electronic Headquarters of the Universitat Politècnica de València at the following website: <https://sede.upv.es>



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The following documentation must be attached electronically:

- A photocopy of a valid National Identity Document (NIF), Foreigner Identity Number (NIE), or passport.
- Proof of payment of the corresponding application fee. (This document shall only be required in the cases provided for under “technical exceptionalities”)
- A copy of the academic degree required in the call. The Master's degree must comply with the eligibility criteria established by the Doctoral School, as indicated below:
  1. University degrees and academic transcripts required for admission to a Doctoral Programme (i.e., Bachelor's and Master's degrees, or equivalent university degrees under previous educational systems). Documentation for degrees issued by the UPV does not need to be submitted. Academic transcripts from Spanish universities must include the average grade. For academic transcripts corresponding to non-Spanish degrees, applicants must attach the corresponding *declaration of equivalence of average grade*, in accordance with the procedure established by the Ministry of Universities: [https://universidades.sede.gob.es/pagina/index/directorio/Equivalencia\\_notas\\_medias/languaje/es\\_ES](https://universidades.sede.gob.es/pagina/index/directorio/Equivalencia_notas_medias/languaje/es_ES).
  2. If the Master's degree was obtained within the European Higher Education Area (except Spain), applicants must additionally provide the European Diploma Supplement, or a certificate issued by the awarding university stating that the Master's degree corresponds to EQF Level 7, or a certificate stating that the degree grants access to doctoral studies in that country (template form).
  3. If the Master's degree was obtained outside the European Higher Education Area, applicants must additionally provide a certificate issued by the awarding university stating that the degree grants access to doctoral studies in that country (template form).
  4. If the Master's degree was obtained outside the European Higher Education Area (EHEA), it must be duly legalized.
- Official academic transcript corresponding to the degree granting access to the doctoral programme, including all courses completed, the number of credits, grades obtained, academic year, and overall average grade.
- A sworn declaration or supporting documentation demonstrating compliance with the mobility requirement, confirming that all documentation submitted in the selection process is truthful.
- A sworn declaration or supporting documentation demonstrating compliance with the Early-Stage Researcher requirement, confirming that all documentation submitted in the selection process is truthful.
- Curriculum vitae including all merits claimed by the applicant.
- Proof of English language proficiency at B2 level or higher. Alternatively, proof of language proficiency may be accepted through submission of a Bachelor's or Master's academic transcript indicating that English was the language of instruction. Examples of acceptable supporting documentation include:
  - Official certification issued by the institution accrediting English-language training
  - European Diploma Supplement indicating the language of instruction of the programme
  - Official certificates such as **Cambridge English, IELTS, TOEFL, or EOI certificates**.

In order to be assessed, all merits declared by applicants must be accompanied by the corresponding supporting documentation.

All documentation must be submitted in the manner indicated above and within the established deadline.

The Selection Committee shall not assess merits that have not been declared, are insufficiently supported, have not been corrected during the amendment period, or have been submitted after the deadline.



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#### 3.4 Selection Process

For the selection of candidates, a Selection Committee shall be appointed by the Rector upon proposal of the Principal Investigator. The Committee shall consist of the following members: one Chairperson, two Committee Members, all of whom shall be career civil servants or permanent staff, and one Secretary. The Secretary shall participate with voice but without voting rights.

Both full members and substitute members shall be appointed as part of the Selection Committee.

The operating procedures of the Selection Committee shall at all times comply with the provisions of Law 40/2015, of 1st October, on the Legal Regime of the Public Sector. Members of the Selection Committee must abstain from participation and may be challenged by interested parties whenever any of the circumstances established in Article 23 of the aforementioned Law apply.

For the purposes of notices and official communications, the Selection Committee shall be based at the Rectorate Building of the Universitat Politècnica de València, Camino de Vera s/n, Valencia.

The selection process shall consist of the evaluation of the merits declared by the applicants, in accordance with the duties and evaluation criteria applicable to the position.

#### 3.4.1. Evaluation of Merits.

The evaluation of merits shall consist of assessing the merits declared in accordance with the evaluation criteria set out below. Only merits obtained on or before the closing date for the submission of applications shall be taken into consideration.

The Committee shall propose the allocation of the position according to the following criteria:

- Academic record (30%)
- Professional experience related to the duties of the position (30%): The suitability of the applicant for the research programme, project, or activities to be carried out shall be assessed according to their previous education and experience. Consideration shall be given to the added value that participation in the project represents for the applicant's research career, as well as the contribution brought to the host institution and research team
- Curricular merits related to the project (30%): Suitability of the applicant's curriculum vitae to the research project covered by the call.
- Other merits (10%): Languages, international stays, technical and transferable skills, scholarships and grants received, awards and distinctions.

The applicant's suitability for the programme, project, or research activities shall be assessed on the basis of prior training and experience. Particular consideration shall be given to the added value that participation in the project may represent for the applicant's research career, as well as the contribution made to the host institution and research team.

The members of the Selection Committee may decide to conduct a personal interview with the candidates, solely for the purpose of verifying the merits submitted by the applicants, therefore, the interview shall not be subject to specific evaluation.



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The interview may be conducted either in person or through videoconferencing systems that ensure the identity and participation of all people involved. For this purpose, the Selection Committee shall adopt the necessary measures to guarantee the publicity, identity, and participation of the applicants.

If conducted by telematic means, the Selection Committee shall agree upon and notify the applicants, sufficiently in advance, of the telematic means through which the interview will be conducted, having previously verified that all applicants possess the necessary technical resources to participate. Furthermore, given the public nature of the procedure, it must be ensured that all applicants summoned are able to connect remotely to the interviews conducted with the remaining candidates.

Whenever deemed appropriate by the Selection Committee, the interview may be recorded. In such cases, candidates should be informed in advance that the interview will be recorded.

During the selection process, if the Selection Committee considers that sufficient reasons exist, it may request any applicant to provide evidence demonstrating compliance with all or part of the eligibility requirements for participation in the selection process.

Once the evaluations have been completed and, where applicable, the personal interview has taken place, the Selection Committee shall publish on the website the provisional scores obtained. Applicants shall be granted a period of two working days from the day following publication to submit any claims or objections they consider appropriate regarding their scores.

Where the Selection Committee decides to conduct personal interviews, the provisional evaluation of merits shall always be published after the interviews have been completed.

If all affected applicants agree with the scores obtained, they may expressly waive the aforementioned claims period by submitting written notice through the email address indicated by the Selection Committee in its announcements.

### **Final Results.**

Once any claims have been resolved by the Selection Committee, and in accordance with the total score obtained, the Selection Committee shall draw up a ranked list of selected applicants and propose the candidate to be hired.

The announcement of the Selection Committee containing the final results of the selection process shall be published on the website, as well as on the Electronic Headquarters of the University.

In the event of a tie in the final scores, the contract shall be awarded by public draw among the tied applicants, who shall be duly summoned for this purpose.

Applicants who are not selected but who have successfully passed the selection process shall be included in a reserve list, which may be used to replace the selected applicant in the event of resignation or temporary absence, or to cover new needs arising within the same research project, following the order of ranking obtained in the selection process.

### **3.5 Recruitment**

Once the selection processes derived from this call have been completed, contracts shall be formalized in writing. Selected applicants shall be recruited under the modality of a predoctoral contract, regulated by Article 21 of Law 14/2011, of 1st June, on Science, Technology and Innovation, and by Royal Decree



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103/2019, of 1st March, approving the Statute of Predoctoral Research Personnel in Training.

In order to formalize the contract, the selected applicant must be enrolled to the Doctoral Programme in Animal Science and Technology at the UPV.

The recruited researcher shall enjoy the same rights as the rest of the UPV staff, as established in the revised text of the Workers' Statute Law, approved by Royal Legislative Decree 2/2015, of 23rd October, and in the employment, contract linked to the research project.

The expected starting date for the selected candidate is **September 15th 2026**. Failure to join on this date shall imply withdrawal from the contract.

If the selected applicant has previously held a predoctoral contract at this or any other institution, the duration of such contracts shall be deducted from the maximum legal duration permitted for this type of contract.

### **3.6 Resignations and Replacements**

Should the beneficiary wish to resign from the contract, they must submit written notice to the Research Personnel Management Service at least 15 days in advance, indicating their voluntary decision to resign and the date on which they wish to terminate the contract.

A predoctoral researcher may be replaced in the following cases:

- Resignation
- Non-renewal
- Early termination of the contract

### **3.7 Incompatibilities**

The performance of this position shall be subject to the legislation in force regarding incompatibilities.

More specifically, contracts funded under these grants shall be incompatible with the existence of any other employment contract held by the recruited predoctoral researcher in training, as well as with the receipt of any salary-related remuneration whenever this may interfere with the research and training purpose of the grant and/or overlap with the same working schedule. They shall also be incompatible with the receipt of other grants or financial aid with a similar purpose.

The researcher shall work exclusively for the project.

Research personnel hired under the predoctoral grant who carry out their work at a university may collaborate in teaching activities within a university department, subject to prior authorization from the university, for a maximum of 180 hours throughout the total duration of the grant, and under no circumstances exceeding 60 hours per year.

## **4. Publicity**

Publications and other results deriving from the predoctoral contract must comply with the UPV affiliation regulations.

Likewise, they must acknowledge, in the appropriate section, the funding entity or entities, explicitly mentioning the European Union's *Horizon Europe* Research and Innovation Programme under the Marie Skłodowska-Curie Actions – Doctoral Networks Grant Agreement No. 101226312



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#### 5. Basic Information on Data protection

The Universitat Politècnica de València (UPV), with registered address at Camí de Vera s/n, 46022 Valencia, is responsible for the processing of information and personal data.

The purpose of data processing, through the various management units and collegiate bodies of the UPV, is the management of competitive selection procedures and compliance with obligations relating to transparency, access to information, and active publicity.

Data shall be retained for as long as necessary to fulfil the stated purpose and comply with legal obligations. Data may be transferred to other Public Administrations or subject to international data transfers, for which the UPV has adopted the guarantees and protection measures required under the General Data Protection Regulation (EU 2016/679).

The rights of access, rectification, erasure, objection, restriction of processing, and data portability may be exercised by contacting the UPV Data Protection Officer via email at: [dpd@upv.es](mailto:dpd@upv.es)

The UPV Data Protection Officer may also be contacted through the same email address. Where appropriate, complaints may be submitted to the Spanish Data Protection Agency: [www.aepd.es](http://www.aepd.es)

#### 6. Appeals

Appeals against decisions of the Selection Committee, which do not conclude the administrative procedure, may be lodged before the competent authority within one month from the day following publication, in accordance with Articles 121 and 122 of Law 39/2015, of 1st October, on the Common Administrative Procedure of Public Administrations.

This call and its rules, which conclude the administrative procedure, may be challenged by interested parties through an administrative litigation appeal before the corresponding Administrative Court within two months from the day following publication.

Additionally, interested parties may optionally file an appeal for reconsideration within one month from the day following publication, in accordance with Articles 112, 114, 115, 123, and 124 of Law 39/2015, of 1st October, on the Common Administrative Procedure of Public Administrations, and Articles 8, 14.2, and 46 of Law 29/1998, of 13th July, regulating the Administrative Litigation Jurisdiction.

This is without prejudice to the use of any other appeal deemed appropriate for the protection of their rights.

In Valencia, on the date of signature. The Rector. José E. Capilla Romá.



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**ANEXO I**

**CHARACTERISTICS AND REQUIREMENTS OF THE EMPLOYMENT CONTRACT OFFERED**

<b>CALL REFERENCE CODE:</b>	C21196
<b>NUMBER OF POSITIONS OFFERED:</b>	1
<b>APPLICATION FEE</b>	15,29 euros
<b>PROFESSIONAL CATEGORY:</b>	Senior Research Technician
<b>REQUIRED ACADEMIC QUALIFICATIONS:</b>	Master's Degree or equivalent university degree with 300 ECTS credits completed, related to Environmental Sciences, Marine Sciences, Biological Sciences, Agronomy, Biotechnology, Veterinary Sciences, or related fields

**RESEARCH ACTIVITY DETAILS:**

<b>SCIENTIFIC SUPERVISOR:</b>	David Sánchez Peñaranda
<b>PROJECT TITLE:</b>	Boosting sustainability of European aquaculture through Biofloc Technology
<b>FUNDED BY:</b>	<b>GRANT AGREEMENT Project 101226312 — SwitchFloc</b>
<b>EXPECTED END DATE:</b>	September 14th 2029

**CONTRACT DETAILS:**

<b>HOST UNIT:</b>	Department of Animal Science and Technology
<b>LOCATION:</b>	Valencia
<b>MONTHLY GROSS SALARY:</b>	12 monthly payments, depending on the family situation of the selected candidate at the time of recruitment:  - Salary (including salary and mobility allowance): <b>EUR 3,505.67 gross/month</b>  A family allowance <sup>1</sup> may be included if the candidate fulfils the eligibility requirements.  - Salary (including salary, mobility allowance, and family allowance): <b>EUR 3,686.25 gross/month</b>
<b>WORKING HOURS:</b>	Full-time dedication
<b>TYPE OF CONTRACT:</b>	Predoctoral Contract
<b>EXPECTED DURATION OF THE CONTRACT:</b>	September 15th 2026 to 14th September 2029 (36 months)  The duration of the contract shall be 36 months, provided that the contract does not extend beyond 30th November 2029



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#### **DUTIES AND RESPONSIBILITIES:**

- **Diet formulation design:** Analyse current diet formulations used in aquaculture for the target species, identify nutritional requirements, and select innovative ingredients. Bioactive compounds and additives will be evaluated in the formulated diets in order to improve protein digestibility and intestinal health.
- **Testing of new pellet manufacturing processes:** Investigate and incorporate innovative pellet manufacturing methodologies with reduced energy consumption and minimal by-product generation. Develop manufacturing protocols to improve pellet durability and stability during storage and in water.
- **Optimization of feeding regimes:** Establish and optimize feeding regimes at both small-scale (experimental) and large-scale (commercial) levels. Determine the optimal feeding strategy under BFT, IMTA-BFT, and FlocPonics systems for the target species.
- **Effect of bacterial and microalgae populations on growth:** Identify the most abundant populations of microalgae and bacteria in bioflocs (BFs) that provide the best growth parameters. Quantify the impact of BF on growth through carbon isotope ratio ( $^{13}C/^{12}C$ ) and nitrogen analyses. Promote beneficial microalgae and bacterial populations in the most effective BF systems through modifications of environmental conditions.
- **Diet formulation design:** Analyse current diet formulations used in aquaculture for the target species, identify nutritional requirements, and select innovative ingredients. Bioactive compounds and additives will be evaluated in the formulated diets in order to improve protein digestibility and intestinal health.
- **Testing of new pellet manufacturing processes:** Investigate and incorporate innovative pellet manufacturing methodologies with reduced energy consumption and minimal by-product generation. Develop manufacturing protocols to improve pellet durability and stability during storage and in water.
- **Optimization of feeding regimes:** Establish and optimize feeding regimes at both small-scale (experimental) and large-scale (commercial) levels. Determine the optimal feeding strategy under BFT, IMTA-BFT, and FlocPonics systems for the target species.
- **Effect of bacterial and microalgae populations on growth:** Identify the most abundant populations of microalgae and bacteria in bioflocs (BFs) that provide the best growth parameters. Quantify the impact of BF on growth through carbon isotope ratio ( $^{13}C/^{12}C$ ) and nitrogen analyses. Promote beneficial microalgae and bacterial populations in the most effective BF systems through modifications of environmental conditions.
- **Any other duties that may arise**



## Public Call for Applications for the Recruitment of Pre-doctoral Research Personnel in Training (PIPF)

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3-month secondments at:

- **VRM Srl Naturalleva (Italy)**
- **Universidade do Porto (Portugal)**

<sup>1</sup> **Family Allowance:** Applicable only if the researcher has a family. "Family" refers to persons linked to the researcher by marriage (or a relationship with equivalent status recognised under the legislation of the country where such relationship was formalised) and/or dependent children financially supported by the researcher.

### SELECTION COMMITTEE

Titular President:	SANCHEZ PEÑARANDA, DAVID; Catedrático de Universidad del Dpto. de Ciencia Animal de la Universitat Politècnica de València.
Alternate President:	RODILLA ALAMA, MIGUEL; Profesor Titular de Universidad del Dpto. de Ingeniería Hidráulica y Medio Ambiente de la Universitat Politècnica de València.
Titular Member:	TOMAS VIDAL, ANA; Catedrática de Universidad del Dpto. de Ciencia Animal de la Universitat Politècnica de València.  MARTINEZ LLORENS, SILVIA; Catedrática de Universidad del Dpto. de Ciencia Animal de la Universitat Politècnica de València.
Alternate Members:	JOVER CERDA, MIGUEL; Catedrático de Universidad del Dpto. de Ciencia Animal de la Universitat Politècnica de València.  FALCO GIACCAGLIA, SILVIA LAURA; Profesora Titular de Universidad del Dpto. de Ingeniería Hidráulica y Medio Ambiente de la Universitat Politècnica de València.
Titular Secretary:	ABOLAFIO MARTINEZ, BEATRIZ; E. Gestión Administrativa UPV del Servicio de Gestión Económica de la Universitat Politècnica de València, que actuará con voz, pero sin voto.
Alternate Secretary:	ROCAFULL BOIX, ALICIA; E. Administrativa UPV del Dpto. de Ciencia Animal de la Universitat Politècnica de València, que actuará con voz, pero sin voto.