

Portuguese Institute of the Sea and Atmosphere, I. P.

INTERNATIONAL SELECTION PROCEDURE TO HIRE A DOCTORATE
(UNDER DECREE-LAW N.º 57/2016, OF AUGUST 29)
FOR THE NATIONAL PROGRAM OF BIOLOGICAL SAMPLING (PNAB) -
ACOUSTIC APPLIED TO MARINE BIOLOGICAL RESOURCES

Notice No. 20174/2022

1. Under the terms of Decree-Law No. 57/2016, of 29 August, in its current wording, it is made public that, by deliberation of the Board of Directors of IPMA, IP, dated July, 15th of 2022, it was authorized, the opening of an international procedure - applications must be submitted within the deadline of 10 (ten) working days - for three doctoral researcher positions, with a fixed-term employment contract in public functions, for a period of three years, for the National Program of Biological Sampling (PNAB) – acoustic applied to marine biological resources.

2. The National Biological Sampling Program (PNAB) has, among other responsibilities, to ensure that two acoustic screening campaigns are carried out: PELAGO and IBERAS, in coordination with the acoustic campaigns in Spain and France, and whose results are discussed at ICES - WGACEGG (Working Group on Acoustics and Egg Surveys for small pelagic fish in NE Atlantic).

The main objectives of the PELAGO campaigns include monitoring the distribution of abundance and biomass and the study of various biological parameters of small pelagic fish especially sardine (*Sardina pilchardus*), anchovy (*Engraulis encrasicolus*), mackerel (*Scomber colias*), mackerel (*Scomber scombrus*), white horse mackerel (*Trachurus trachurus*).

These campaigns also include monitoring the distribution of fish eggs and larvae and observing marine birds and mammals along the acoustic transects, as well as the physical, chemical and biological characterization of the pelagic ecosystem.

The abundance and biomass estimates of sardines and anchovies from the PELAGO campaign are used annually in models to assess southern stocks of these species.

The IBERAS campaign is a new time series of acoustic screening campaigns, started in 2018.

IBERAS is shared between Portugal (IPMA) and Spain (IEO) and its main objective is to estimate the strength of sardine recruitment in Iberian Atlantic waters

2.1 The functions inherent to the job are as follows:

- a) Testing and application of acoustic methodologies, using scientific probes, to monitor the abundance and behavior of pelagic fish species, as well as other biological organisms that make up the marine ecosystem;
- b) Development of methodologies for modeling acoustic data collected within the scope of the PNAB/DCF, e.g. analytical and numerical modeling of backscattering of marine organisms;
- c) Development of the database to integrate the acoustic, biological and environmental data collected during the research campaigns;
- d) Planning and participation in oceanographic research campaigns within the scope of the PNAB/DCF (about 33 days a year in the PELAGO campaign and 18 days a year in the IBERAS campaign; and in other acoustic screening research campaigns if relevant for capacity development of carrying out the functions);
- e) Participation in meetings of national and international working groups within the framework of competent regional fisheries management organizations and international scientific bodies of the Community and the Member States;
- f) Preparation and submission of scientific articles, including national and international project reports.

3. Applicable legislation:

- a) Decree-Law no. 57/2016, of August 29th, in its current wording;
- b) General Labor Law in Public Functions (LTFP), approved as an annex to Law No. 35/2014, of June 20th, in its current wording;
- c) Regulatory Decree No. 11-A/2017, of December 29th.

4. Under the terms of article 16 of the RJEC, the present procedure is exempt from:

- a) Authorization of the members of the Government responsible for the finance and Public Administration's areas, has referred in paragraph 3 of article 7 of the LTFP,
- b) Obtaining the prior favorable approval referred to in paragraph 5 of article 30 of the LTFP and

c) The procedure for recruiting workers in a situation of professional development, has mentioned in article 265 of the LTFP.

5. Only national, foreign and stateless candidates who hold a Doctor's degree in Engineering, Physics, Mathematics, Marine Sciences, Marine Biology or similar areas can apply for the competition, under penalty of exclusion.

6. Those who, under the terms of Decree-Law No. 66/2018 of August 16th, may also apply recognized academic degree or higher education diploma, awarded by foreign higher education institutions.

7. Remuneration is fixed in accordance with the provisions of article 15 of the RJEC in conjunction with article 2 of Regulatory Decree No. 11-A/2017, of 29 December, corresponding to remuneration level 33 of the remuneration table (TRU), approved by Ordinance no. 1553-C/2008, 31 December, which corresponds, in 2022, to the monthly amount of € 2.153,94, to which the meal, holiday and Christmas allowances are added.

8. Workplace: IPMA - Algés, at Avenida Doutor Alfredo Magalhães Ramalho, n.º 6; 1495-165 Algés.

9. According to article 5 of the RJEC, the selection is carried out through the evaluation of the scientific and curricular path of the candidates, considering the following parameters (0 to 20 values), in an additive way, broken down to the tenths, with the value of the Proven professional experience in:

- a) Programming, preferably in “*Python*” or “*R*” language;
- b) Signal processing;
- c) Use of acoustic data acquisition systems;
- d) In oceanographic research campaigns;
- e) In marine ecosystems;
- f) Work in a multidisciplinary team.

Scientific, technological, cultural or artistic production in the last five years considered most relevant by the candidate and relevant for the job	8 values
Applied research activities, or based on practice, developed in the last	8 values

five years and considered to have the greatest impact by the candidate and relevant for the job	
Extension and dissemination activities of knowledge developed in the last five years, namely in the context of promoting culture and scientific practices, considered of greater relevance by the candidate and relevant for the job	3 values
Management activities of science, technology and innovation programs, or experience in observing and monitoring the scientific and technological system or higher education, in Portugal or abroad	1 value

10. The candidate's evaluation of the scientific and curricular path can be completed by interview, if the jury so decides.

The interview does not constitute a selection method and is not classified, aiming only to obtain clarifications or explanations of elements contained in the candidates' curricula.

11. In accordance with article 13 of the RJEC, the jury has the following composition:

President: Professor Jorge Miguel Alberto de Miranda, President of the Board of Directors of IPMA, IP;

Effective members: Dr. Ivone Maria Ribeiro Figueiredo Silva Rosa, Director of the Department of the Sea and Marine Resources (DMRM) and Doctor Ana Cristina Andrade Moreno Marques, Assistant Researcher at PNAB, DivRP.

Substitute members: and Doctor Rita Maria Pina Vasconcelos, Assistant Researcher at PNAB, DivRP;

Bárbara Marques Serra Pereira Antunes da Silva, Head of the Fisheries Resource Modeling and Management Division (DivRP);

12. The jury decides through nominal voting based on the criteria of selection adopted and disclosed, with no abstentions allowed.

13. After the jury's meetings, a minute containing what has happened in the reunion, as well as the votes cast by each of the members and the respective reasons, will be made.

That minute will be available to candidates whenever requested.

14. The final decision of the jury requires approval by the Board of Directors of IPMA, IP.

15. The deadline for submitting applications to the procedure is 10 working days, counting from the day following the publication of this notice in the Public Employment Exchange (BEP).

16. The application must be accompanied by the following documents:

- a)** Form available on the IPMA, IP website, expressly indicating which reference(s) you are applying for;
- b)** Copy of certificate or diploma attesting to the degree of Doctor (or equivalent);
- c)** Doctoral thesis;
- d)** Detailed and updated Curriculum Vitae;
- e)** Other documents that the candidate deems relevant for the assessment of their scientific and curricular path.

17. Candidates must submit the documents, preferably in digital format, in PDF format, to the email address recrutamento@ipma.pt, in person at Rua C ao Aeroporto de Lisboa, 1749-077 Lisboa, during office hours (10h/16h), or by post to the same address.

When sent by post, the mail must be registered, with receipt, sent until the last day of the deadline.

18. The following will be excluded from the procedure:

- a)** Candidates who incorrectly formalize their application or who do not meet the required requirements.
- b)** Candidates who do not submit the application, do not submit documentation or submit illegible, incorrectly completed or invalid documentation.

19. The jury has the option of requiring any candidate, in case of doubt, the documents that prove what is statement by the candidate.

20. False statements made by candidates will be punished by law.

21. The lists of admitted and excluded candidates, as well as the final classification lists, are published on the website <http://www.ipma.pt/pt>, with candidates being notified by email with a receipt of delivery of the notification.

22. Under the terms of article 121 of the Code of Administrative Procedure, after notification, candidates have 10 working days to comment in writing.

Within 90 days, counting from the deadline for the submission of applications, the final decisions of the jury will be approved.

23. This competition is exclusively intended to fill the vacancies indicated.

It may be terminated before the approval of the final ranking list of candidates and will expire with the occupation of the job's offer.

24. IPMA, IP actively promotes a policy of non-discrimination and equality of opportunities and access to employment, in alignment with article 9 of the Constitution.

25. The jury approved this notice at the meeting held on July, 7th, of 2022.

August, 1st of 2022 — The Chairman of the Board of Directors, Jorge Miguel Alberto de Miranda.