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	Anúncio de Bolsa	REV.: 02
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Post-Doctoral Fellowship – 1 Vacancy

Within the project - Hydroshifts

Project Ref^o: PTDC/CTA-CLI/4297/2021

Ref. ^a: CCMAR/BPD/06/2024

The Centro de Ciências do Mar do Algarve (CCMAR) opens one (01) vacancy for a postdoctoral fellowship (BPD) in the scientific area of **Global Changes** or related area, eligible to candidates of any nationality, including stateless persons and beneficiaries of the political refugee status, within the scope of the research project **PTDC/CTA-CLI/4297/2021**, designated by **Hidroshifts** - “*Compreender as variações abruptas do hidroclima nas médias latitudes do Atlântico Norte*” funded by the Fundação para a Ciência e a Tecnologia Tecnologia I.P./MCTES, through national funding, under the following conditions:

Host and Contracting Institution: CCMAR


Work Plan, Tasks and Objectives:

Global warming is causing rapid melting of glacier caps and contributing to an intensification of extreme weather events in vulnerable regions. The intensification of droughts, strongly increasing the risk of fires in certain regions of the planet and the increase in the severity of storms and floods in others, are worrying societies.

Extreme events occurred in the past mainly during glacial periods and transition periods between glacial and interglacial periods (deglaciations/terminations). These transitions are seen as potential test cases to understand and simulate extreme climate events, since they are marked not only by abrupt increase in CO₂ and in Temperature. For this reason, deglaciations are excellent examples of the non-linear behaviour of the climate system, and are therefore considered unique periods to test the projected climate for 2100.

The main objective of Hydroshifts is therefore to understand the causes and mechanisms that control and regulate climate instabilities, namely variations in hydroclimate in regions considered vulnerable and exposed to extreme phenomena (extreme drought, fires, storms and floods), such as the SW Europe and SE USA.

The Hydroshifts project proposes to perform at very high temporal resolution, direct ocean-continent comparison (using analyses of pollen grains and continental and marine biomarkers but also associations of planktonic foraminifera), in two different locations, in SW Europe and on the coast SE United States, in several periods of deglaciation with different ice volume precedent conditions: TI, TV and TVII. These deglaciations (TI: ~ 18 thousand years, TV: ~ 430 thousand years and TVII: ~ 625 thousand years) present some similarities and differences between them and with the scenario that lies ahead.

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The work proposed for this post-doc will be to analyse the pollen content of a sedimentary record ODP 1058 for terminations TV and TVII. There are 185 to be analysed, 95 will be analysed by the postdoc fellow and the rest by the project PI.

Objectives:

The work proposed for this postdoc will be to analyse the pollen content of a sedimentary record ODP 1058 for the TV and TVII. There are 185 to be analysed at the level of pollen content, of which 95 will be analysed by the postdoc fellow. These data will be coupled with data obtained by PI, in order to explore not only changes in terrestrial vegetation/climate during the TV and TVII terminations but also during the glacier periods that precede them, i.e, MIS 12 and MIS 16. In addition to changes in vegetation/ continental climate, it will also be possible to determine the total pollen concentrations (TPC) which in this area will reflect variations in the frequency and intensity of storms in the region. This work is integrated into tasks 3 and 4 of the Hydroshifts project. Subsequently, these data will also be compared with SST data (surface water temperature) obtained either through the analysis of alkanones (fellowship holder: Mélinda Maritins, from IPMA) or through the study of associations of planktonic foraminifera (Researcher hired by CCMAR Andreia Rebotim; and by the fellow investigation by CCMAR João Santos) (Task 5).

Description of the work plan:

In this first 6 months of fellowship:


1. Mounting of slides to be observed on the microscope;
2. Identification and counting of pollen grains from 95 samples from the ODP 1058 record;
3. Combine the results obtained by the postdoc with that obtained by the project PI from the same record; and calculate of pollen percentages and pollen concentrations;
4. Elaborate pollen diagrams (of percentages and concentrations);
5. Perform the zonation of vegetation versus terrestrial climate variability.

Scientific Supervisor:

Doctor Filipa Naughton, Project coordinator, Auxiliary Researcher of IPMA and CCMAR member.

Workplace:

The place of work is at IPMA – Algés, Divisão de Geologia e Georecursos Marinhos – Av. Doutor Alfredo Magalhães Ramalho nº 6, 1495-165 Lisboa, Portugal and other places necessary for the completion of the work plan.

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Requirements for the application:

The Candidates must meet the following conditions:

1. PhD in Environmental sciences or related subjects, but essentially with expertise in marine palynology, obtained in the three years prior to the date of submission of this application.
2. Candidates who have carried out research work leading to a doctoral degree at CCMAR as host institution are not eligible.
3. Candidates must comply with Art. 3 of the CCMAR Fellowship Regulation, [here](#). This should be confirmed on the Curriculum Vitae.

Non-compliance justifies exclusion from the procedure.


Evaluation Criteria:

Through the analysis of the application documents the evaluation criteria for the applications and their relative weight for ranking are as follows:

- a) Experience in marine palynology in the North Atlantic region (50%);
- b) Knowledge on past glacial periods and deglaciations (30%);
- c) Motivation Letter (20%).

The selection committee reserves the right to contact and interview candidates if additional information or clarification of any curricular aspect is necessary. In case it takes place, the interview aims to evaluate in more detail the curricular items used to grade the candidate according to the list above.

In the event that no applicant has the necessary profile, the selection committee reserves the right to close the call without any recruitment. In the event that the selected person does not take up the position because of failure to comply with documentary requirements or any other reason, or later during the contract if they resign, the jury reserves the right, upon convenience and opportunity, to assign the post to the next applicant in accordance with the ranking positions based on the selectable reservation list that can be used up to 06 months of the date of the present announcement.

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Fellowship conditions: The fellowship will have an initial duration of 06 months, possibly renewed for additional periods or until the end of the research project for a total maximum of 36 months and with an expected start date of October, 2024. The fellowship must be carried out under an exclusivity regimen, according to the CCMAR fellowship regulations (see [here](#)), and the FCT fellowship regulation based on the Portuguese law 40/2004, of 18 of August (Scientific Research Fellowship holder statutes) amended by the Decree-Law 123/2019 of 28 of August. A maintenance allowance of 1801.00€ will be paid monthly, through bank transfer, and will be updated as stipulated by the Foundation for Science and Technology (see [here](#)).

Application period: from 01st of August to 14th of August of 2024 at 23:59 (Lisbon time, Portugal).

Application process and mandatory documents:

Only complete applications submitted directly and obligatorily on the CCMAR website, <https://ccmar.ualg.pt/en/career-opportunities>, are accepted and must include the documents below indicated under penalty of exclusion:


1. A letter of motivation (in English);
2. Detailed Curriculum Vitae (in English);
3. Copy of the Doctoral Certificate;
4. The email contact of up to 3 referees.

The submission of an application without the documents/information required above determines the immediate rejection of the application.

Results and Prior Hearing: Notification of admission and ranking results will be communicated by email to candidates within 90 working days after the deadline for submitting applications. After said notification, the candidates have 10 working days to comment/challenge the preliminary decision.

Selection Committee:

Doctor Filipa Naughton, Project coordinator and Auxiliary Researcher of IPMA and CCMAR member (President of the jury); Doctor Vitor Magalhães, Researcher at IPMA and CCMAR (Member) and Doctor Dulce Oliveira, Researcher at CCMAR and IPMA (Member) and Doctor Fátima Abrantes, researcher at CCMAR and IPMA (Substitute Member) and Doctor Teresa Rodrigues, Researcher at IPMA and CCMAR (Substitute Member).

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Notes:

Hiring Documents

After the candidate is selected and for the hiring purpose the following documentation/information will be requested:

- Copy of the doctoral degree;
- Declaration of commitment stating the exclusivity regime.
- Civil, fiscal and social security Identification (if applicable)
- Account Number – IBAN
- Ciência ID: <https://www.ciencia-id.pt/CienciaID/HomePage.aspx>

Fellowship Agreement model

After the candidate selection and all information is received, it will be signed a fellowship agreement in accordance with the model [here](#).

Fellowship holder Assessment

The activity developed by the fellowship holder will be evaluated by the supervisor, by applying the following criteria, in accordance with the model below.

Criteria 1 – Checking the work performed (80%)

Criteria 2 – Availability to participate in the Hydroshifts project workshop (20%)


Supervisor report model [here](#).

Fellowship holder report

By the end of each fellowship period (if applicable) the fellowship holder must present a report. You can find the fellowship holder final report model [here](#)

The board of Directors reserves the right, due to a change in circumstances at the date of the present announcement, to cancel the present call without any recruitment.

Disabled candidates shall be preferred in a situation of equal ranking, and said preference supersedes any legal preferences. Candidates must declare, on their honour, their respective disability degree, type of disability and communication / expression means to be used during selection period on their application form, under the regulations above.

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CCMAR endorses the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers (Charter and Code).

CCMAR's non-discrimination and equal access opportunities policy – No candidate can be privileged, benefited, jeopardised or be deprived of any right or exempt of any claim in regards to descendent, age, gender, sexual orientation, marital status, economic situation, origin, social economy, genetic heritage, disability, chronic disease, nationality, ethnicity, territory of origin, language, religion, politics, ideology or union membership.

Faro, 25 of July 2024