CENIEH
Centro Nacional de Investigación sobre la Evolución Humana

European Research Council
Established by the European Commission

OFFER OF TEMPORARY EMPLOYMENT

POSTDOCTORAL RESEARCHER (R2) IN MATHEMATICAL MODELING

Ref: 01/2023 ERC-2020-STG DEATHREVOL

1. General guidelines

Dr. Nohemi Sala is the Lead Researcher (henceforth, "IP") for the project DEATHREVOL: *The roots and evolution of the culture-of-death. A taphonomic research of the European Paleolithic record*, which has been selected to receive financing from the European Research Council (ERC) within the European Union's Horizon 2020 Research and Innovation Program (Grant Agreement no. 949330). These funds stand at €1,494,486 and her project will take place over 5 years starting on 01/04/2021, at the Centro Nacional de Investigación sobre la Evolución Humana (CENIEH).

This project, DEATHREVOL, will be pursued through an interconnected network of researchers from different fields of paleoanthropology, taphonomy, the geosciences and other related disciplines, where some participants will work at the CENIEH and be led directly by the IP, and the rest are external collaborators from different European and American research centers.

The *Grant Agreement* signed with the European Commission (no. 949330) includes a specific allocation for hiring a Postdoctoral Researcher specializing in mathematical modeling, artificial intelligence and machine learning, full-time, so that this hire will be 100%-financed by the funds of the DEATHREVOL Project, within the cited agreement.

The selection process will be carried out through the selection by competitive merit system, in accordance with the constitutional principles of equality, merit, capacity and transparency, with the evaluations and scores specified below, in the corresponding section and annex.

2. Purpose of the contract, duration and remuneration

The overall purpose of this contract is to carry out the research work envisaged as part of the European project “DEATHREVOL” (GA no. 949330), directed at establishing statistical and mathematical models using the technique of machine learning.
More specifically, the duties shall be:

- Acquire, standardize, and clean data. These data may be either taphonomic (metrical, morphological and categorical) or spatial (data acquisition and data cleaning)
- Establish statistical and mathematical models, as well as predictive models for taphonomic processes. This includes descriptive statistics, multivariate analyses, and methods from AI.
- Compare the taphonomic patterns of the different samples analyzed to address specific questions.
- Contribute to the scientific communication and outreach of DEATHREVOL, facilitating access to the information necessary for the project communication plan.

The term of this contract shall initially be for two years, though this might be extended for six additional months if the project so requires. The start date is envisaged to be **May 1st 2023**.

This temporary position will report to the IP of the DEATHREVOL project which will finance the entirety of the salary costs of this contract (gross salary, employer's Social Security contribution, raises and incentives, if applicable, and the appropriate severance pay).

This temporary position falls within the Research Functional Area, Professional Group II, level B.2, professional category of Postdoctoral Researcher, with a tier 4 complement in conformance with the professional classification and salary tables in force of the First Collective Agreement of the Consorcio CENIEH published in the Boletín de la Provincia de Burgos, No. 8, on January 12th 2012.

The employment contract to be formalized shall be a Scientific-Technical activity contract linked to the needs, duration and budget for the cited project, in accordance with article 23 bis of the Act 14/2011, of June 1st, on Science, Technology and Innovation, full-time, for 38.5 hours per week, so that according to the tables for 2023 this gross annual remuneration stands at approximately €29,200.

3. Requirements of candidates

Minimum requirements that applicants must meet by the application deadline to be admitted to the selection process:

- Doctoral degree, preferably in Engineering, Mathematics or Computer Science. The person appointed must be in possession of this qualification by the start date.

Once admitted to the process, the following aspects detailed in Annex I will be evaluated in particular:

1. The qualification demanded will be assessed in accordance with how close a relation it bears to the duties and tasks to be performed.
2. Documented experience (high-impact scientific publications) certifying skills in the methodology of machine learning.
3. International mobility during university training and postdoctoral career.
4. Other merits in the area of practical applications of predictive models in different disciplines (awards, conferences, courses).
5. Advanced level of scientific-technical English, oral and written (Level C1).
6. Demonstrated commitment to "open science" and responsible scientific promotion and outreach.
7. Capacity and skill to work in interdisciplinary environments together with specialists in earth sciences, paleoanthropology, paleoecology, and archaeology.

4. Applications

Those who would like to participate in this process should send the following documentation, **indicating the reference** **01/2023 ERC-2020-STG DEATHREVOL**, via the CENIEH website, by email to the address **rrhh@cenieh.es**, or else by regular mail to the address Paseo Sierra de Atapuerca 3 - 09002 Burgos, Spain:

1. Curriculum vitae detailing the specific training and experience to be assessed in the process.
2. Memorandum of scientific and professional career, detailing experience in applying techniques of spatial analysis to archaeopaleontological sites: maximum length two sides of one sheet (font Arial 11 or equivalent). Scientific publications shall be accredited by means of a list including the bibliographic data and DOI, and they should include a brief explanation of the candidate's contribution to each publication and the relationship of the position held.
3. Documentation accrediting the merits to be assessed pursuant to the evaluation criteria set out in Annex I. **Any merits not accredited by documentation will not be taken into account in the evaluation process**.

4. Employment history issued by the Tesorería de la Seguridad Social, or equivalent certificates for those who have worked in another country.
5. One letter of reference.
6. Copy of DNI, NIE or passport.
7. Academic degree or certification to be considered in the selection process, showing the completion date.

Failure to submit the aforementioned documentation will result in the exclusion of the candidate, although any defect in the documentation may be corrected within the period facilitated for the purpose.

For the purposes of the evaluation process, only the information included in the curriculum vitae by the application deadline will be taken into account. Subsequent update of information included in these documents will not be possible. The merits claimed must be held by the deadline and must be appropriately documented for them to be assessed.

Applications may be submitted at any time up to **2 pm on March 13th 2023**.

5. Selection committee:

Management will appoint the members of the Selection Committee who will evaluate the applications received for the position offered publicly in this call, and who will make a proposal for the award of the aforementioned position.

The composition of the Selection Committee will be based on the principle of a balanced presence of women and men, except for justified and objective reasons duly explained.

The members of the Selection Committee are listed in Annex II.

The Selection Committee is made up of the following members:

1. President: Dr. Nohemi Sala Burgos
2. Member: Ana Pantoja Pérez / Dr. Michael Toffolo (alternate)
3. Member: Diego Urdiales Delgado
4. Secretary: Carmen Gutiérrez Díez

All members of the Committee have been duly informed of the aforementioned evaluation criteria for assessing the candidacies submitted.

The members of the Selection Committee shall refrain from intervening when the grounds for abstention provided for in the Act 39/2015, of 1 October, on the Common

Administrative Procedure of the Public Authorities, applies. Likewise, applicants may challenge the members of the Committee if the aforementioned circumstances apply.

The Selection Committee, pursuant to article 14 of the Constitution of Spain, will ensure strict compliance with the principal of equal opportunities for both sexes.

The personal data of the members of the Selection Committee that may be processed by the Consorcio CENIEH shall be protected by the regulations on the Protection of Personal Data, and processed and incorporated into the "Human Resources" processing activity, for the purposes of this selection process. The legal grounds for the processing of their data shall be the execution of a contract or precontractual measures. The data provided shall be retained for the period necessary to comply with the legal obligations. Data shall not be transferred to third parties except where required by law, and you may lodge any complaint with the Agencia Española de Protección de Datos (www.agpd.es).

According to the regulations on data protection, and in particular, article 5.1.f) of the General Data Protection Regulation 2016/679/EU (the "GDPR"), members of the Selection Committee are obliged to maintain confidentiality and professional secrecy with respect to the personal data they may handle as part of their duties in this selection process.

For the purposes of communication and other incidents, as well as to exercise their rights to access, rectification or erasure, restriction of processing, portability and/or opposition, the data subject can contact the data controller: Consorcio CENIEH (Delegado de Protección de Datos), Paseo Sierra de Atapuerca 3, 09002 Burgos, Spain, or protecciondedatos@cenieh.es

6. Selection process:

The Selection Committee will examine the applications received to determine whether they comply with the requirements in point 3 and the documentation in point 4 herein, formalizing for this purpose a *Provisional List of Admitted and Excluded Candidates*.

Candidates will be notified of a period of 5 working days for the correction of documentation, counted from the day following publication of this list, although under no circumstances may this procedure be used to add to, complete or modify the documentation submitted initially.

Once this period has elapsed, the *Definitive List of Admitted and Excluded Candidates* will be published.

Only the applications that appear as Admitted on this Definitive List, which will be approved by all members of the Selection Committee, will be passed onto the next phase, the curricular evaluation.

The Human Resources Department of the CENIEH will be the body responsible for the custody and control of all documentation related to the selection process.

7. Process phases and evaluation criteria

The admitted candidates will begin the selection process according to the phases and valuation criteria established in Annex I.

Each member of the Committee shall score the candidates individually, and each applicant's average score will be calculated. The score can be rectified if the information provided in the CV is subsequently found to be inaccurate.

The position will be awarded to the candidate who obtains the most points according to the evaluation criteria and the procedure established in Annex I.

Should no candidate achieve the minimum required score because the ideal profile to fill the position has not been found, in the opinion of the Committee, the post will remain vacant.

The Committee will record its hiring proposal for the aforementioned position in the Resolution Act, which will include the proposed candidate and two alternates, for subsequent approval by the Director.

Any discrepancies which might arise out of the interpretation or application hereof shall be settled by the Selection Committee.

Once the selection process has finished, all documentation referring to it shall be returned to the Human Resources Department of the Consorcio CENIEH, the body responsible for its custody and control.

Throughout the selection process, documentation about it shall be available to candidates from the Human Resources Department, which will also inform each applicant about its progress as well as the results obtained. Similarly, any questions or queries about the process should be addressed to this department.

8. Resolution of the selection process

Once the final hiring resolution has been approved by Management, it will be published on the CENIEH website and in such other places as deemed appropriate.

Human Resources will contact the selected candidate to obtain the necessary documentation for the formalization of the contract. A greater number of contracts may not be formalized than positions announced (1).

Applicants with academic qualifications obtained abroad, unless they are expressed in ECTS, must also furnish a certified copy of the appropriate ratification of those studies or a copy of the credential accrediting that those studies have been validated, if applicable. If this is not held at the moment of formalization, it is mandatory to obtain it within the first year.

A fixed-term temporary employment contract will be formalized with the successful candidate, who will have to pass a six-month trial period during which the corresponding supervisor will evaluate their proper performance, and issue the appropriate certification at the end of that period.

In order for the contract to be valid and effective, the proposed candidate must submit to a medical examination by the OHS Service of the CENIEH and be declared "fit" to perform the duties of the position. In the event that the proposed candidate does not submit the appropriate documentation by the deadline set, does not satisfy the requirements demanded, declines the offer, the trial period evaluation is unfavorable, or he/she leaves the post during the first three years, the position may be awarded to the next candidate(s) in the list set out in the Resolution Act. In the event of substitution, the period elapsed shall not be recoverable for the purposes of the duration of the contract, which shall be offered for the time remaining.

Similarly, the list of alternates in the Resolution Act may be used for hiring applicants for other research projects in which the profile and requirements demanded are identical to those herein, always provided that there are urgent reasons and the envisaged duration of the project in question is less than that remaining for the present one. When the cited list is used to fill posts in research projects other than the present one, it shall be valid for 24 months counted from the publication of the Resolution Act.

The present Call, which exhausts available administrative remedies, may be challenged by filing suit before the Juzgado de lo Contencioso-Administrativo of Burgos, within a period of two months counted from the day following its publication on the CENIEH website. It is also possible to file an appeal for reconsideration with the Director within a period of one month from the day following its publication. In this case, the aforementioned suit before the Juzgado de lo Contencioso-Administrativo may not be filed until the appeal for reconsideration has been expressly resolved, or presumed to have been dismissed.

Similarly, all acts arising out of this Call and the actions taken by the Selection Committee may be challenged in the circumstances and in the manner provided for by the Act 39/2015, of October 1st, on the Common Administrative Procedure for the Public Authorities.

In Burgos, on February 14th 2023

Firmado por [illegible] MARIA MARTINON (R: ****0008*) el día 20/02/2023 con un certificado emitido por AC Representación

Signed: María Martinón