

Annex II

Geoarchaeology and Digital Mapping Researcher

REF: 14/2024 INVEST. GEOLOGIA

SUMMARY	SCORE	CUTOFF
I.- COMPETITIVE MERITS PHASE I.1 Academic merits I.2 Experience as specialist scientist I.3 Scientific merits and research record related to geoarchaeology and digital mapping: <ol style="list-style-type: none"> Scientific contributions related to the position Direction and/or participation in research projects Direction or participation in Paleolithic excavations Other scientific merits II.4 Mobility and international experience	40 points max. 2 points max. 10 points max. 26 points: <i>max. 10 points</i> <i>max. 10 points</i> <i>max. 4 points</i> <i>max. 2 points</i> max. 2 points	25 points
II.- EXAMINATION PHASE Oral presentation	60 points	30 points
TOTAL SCORE	100 points	55 points

A. SELECTION PROCESS DEADLINES.

A.1 Application deadline

Applications may be submitted at any time from publication of the offer on the CENIEH website up to **November 22nd 2024, at 2 pm.**

A.2 Process phase durations

- The first phase of the selection process, which is compilation of the Final List of Admitted and Excluded Candidates and evaluation of compliance with the minimum requirements, shall last at most 1 month.
- The second and third phases, which are the examination and competitive merits phases, shall last for at most 1 month each.

B. SELECTION COMMITTEE

Ordinary and alternate members for this selection process have been appointed by Management and are listed in Annex I.

The president shall hold a casting vote.

C. POSITION, DUTIES AND COMPETENCES



C.1 Characteristics of the position

The contract shall be for an indefinite term, with a trial period of six months. The position falls within the Scientific Area. The professional classification and remuneration of the position will depend upon the merits (experience and CV) of the selected candidate, in accordance with the salary tables in force in the First Collective Agreement of the Consorcio CENIEH published in the Boletín de la Provincia de Burgos, no. 8, on January 12th 2012.

C.2 Duties of the Position

Within the Scientific Area, and reporting to the Geochronology and Geology Coordinator, **the Geoarchaeology and Digital Mapping Researcher** appointed will undertake the following general tasks, among others:

- Pursue research in the geoarchaeology line, performing at least the following tasks:
 - Digital surveys and geological characterization of Plio-Quaternary sequences and fillings.
 - Geomorphological analysis applying geomatic techniques for the mapping and reconstruction of paleolandscapes.
 - Analyses of site formation processes and geospatial analyses of Paleolithic assemblages.
- To this end, he/she shall bear the following responsibilities:
 - Supervision and direction of the activities of the Digital Mapping and 3D Analysis Laboratory, focusing on:
 - Tuning, standardization and application of geomatic techniques for 3D and 4D capture of geological sequences and Paleolithic assemblages, and especially for cutting-edge high-precision technologies such as robotized total stations, GNSS, laser scanners, photogrammetric surveys, applications with drones and virtual modeling, all managed by specific software, 3D and Geographical Information Systems.
 - Collaborate in providing services to users of the infrastructure and technical advice about the use and applications of the available usable and appropriate instrumental techniques, supporting the services.
 - Direct and/or participate in competitive and unique projects for funding calls, public or private, and/or contracts. Capture external resources that support and enhance their line of research.
 - Publication of their research in scientific journals, emphasizing quality over quantity: SCI papers, non-SCI papers, books, chapters, etc...
 - Training and development of in-training research personnel, supervision of doctoral dissertations and master's theses, tutoring, participation in master's and training courses for university personnel, etc...
 - Scientific dissemination of their research: participation in conferences, organization of congresses, workshops, events, etc...



- Collaborate on the international profile of the CENIEH working with other centers of prestige, integration into international networks, etc...
- Support the infrastructure of the Center, open to the scientific, technological and industrial community.
- In general, furnish support to and facilitate the supervision of the Program Coordinator and the Director.
- Any other tasks proper to their purview or, where appropriate, their professional group, that are necessary to meet the objectives of the position, the Laboratory, and the Center.

C.3. Competences of the position

The fundamental competences of the position are:

- Innovation and adaptation
- Planning and organization
- Teamwork
- Proactivity
- Responsibility
- Productivity/Goal Orientation
- Capacity for communication
- Linguistic competence in English, equivalent to level B2 of the Common European Framework of Reference for Languages.

D. REQUIREMENTS FOR PARTICIPATION AND THEIR ACCREDITATION

To participate in this competition, it is indispensable to meet every one of the following requirements by the deadline for applications:

1. Doctorate in Geological Sciences or a similar discipline.
2. Minimum experience of 10 years of effective postdoctoral experience in a post the same as or similar to that indicated in section C.2, at public or private research, technology, university, R+D+I or similar centers.

Those who wish to participate in this process should send the following documentation or accreditation via the website:

1. Curriculum vitae detailing the experience required
2. Memorandum on the scientific interests and research activity to be developed at the CENIEH (max. 2 pages), including their compatibility with the support required for the Laboratory services.
3. Two letters of reference
4. Employment history issued by the Tesorería de la Seguridad Social and/or equivalent document for professional experience abroad, issued by the host institution.
5. Copy of DNI or passport
6. Doctoral degree certificate for consideration in the selection process.



E. COMPETITIVE MERITS PHASE

The maximum score for this phase shall be **40 points**.

1. Academic merits (maximum score of 2 points)

Evaluation criterion:

- 2 points for doctorate in Geological Sciences
- 0.5 points for other doctorates related to the topic

2. Specialized experience (maximum of 10 points)

Evaluation criterion:

- Experience in the field of geoarchaeology, such as digital surveys and geological characterization of Plio-Pleistocene sequences and fillings, especially karstic systems, and the analysis of formation processes and geospatial analysis of sites (0.5 points per year, up to a maximum of 5 points).
- Experience in the application of geospatial technologies and the use of geomatic equipment for the mapping and reconstruction of paleoreliefs (0.5 points per year, up to a maximum of 5 points).

3. Scientific merits and research record related to geoarchaeology and digital mapping (maximum 26 points).

a) Scientific contributions relevant to the position (maximum 10 points):

Evaluation criterion:

Only publications appearing in indexed journals, with special emphasis on scientific production in the last ten years, taking into account their quality, repercussion and impact, and how close a relation they bear to studies of geoarchaeology, stratigraphy and digital mapping, will be assessed. Higher scores will be assigned to papers published in journals of recognized prestige included in the list by scientific areas in the *Subject Category Listing of the Journal Citation Reports of the Science Citation Index (SCI)*.

b) Direction and/or participation in research projects (maximum 10 points):

Evaluation criterion:

The projects obtained in public and competitive funding calls will be assessed, including those from private institutions and foundations of a scientific nature, considering the number of projects, the scope of the call (international, national, regional or local), the value of the project and, above all, whether this was in a capacity of leadership/direction or participation.

c) Direction or participation in Paleolithic archaeological excavations (maximum 4 points):



Participation in Paleolithic archaeological excavations, taking into account the role played by the applicant in the same (director/leader, participant...), and the funds personally captured for the excavation.

d) Other scientific merits (maximum 2 points):

The supervision of doctoral dissertations and other research work, the organization and participation in congresses, courses and seminars, activities related to scientific outreach, teaching experience, regularity in scientific production and the coherence of a line of research defined and maintained over the person's career.

4. Mobility and international experience (maximum 2 points):

Evaluation criterion:

Stays at research centers and universities, etc., for periods of at least one month, other than that where the doctoral thesis was pursued, unless this was in a country different from the candidate's nationality, will be evaluated.

The final score for the competitive merits phase shall be the sum of the scores obtained in each of the sections, with the cutoff necessary for passing this phase being 25 points.

F. EXAMINATION PHASE

The maximum score for this phase **shall be 60 points**. It shall be eliminatory.

This will take place in person, in English, and the maximum duration shall be 60 minutes. The candidate will give an oral presentation, which will consist of two parts:

- 1) Oral presentation on the topic: "Geoarchaeology and the application of geospatial technologies and geomatic equipment for the study of Paleolithic sites", which shall consist of an exposition on the potential of geological research through both geomorphological, stratigraphic and sedimentological approaches, and the application of geospatial technologies and geomatic equipment, for the study of Paleolithic assemblages. The candidate shall also explain their own contributions and interests for the development of the discipline.
- 2) Oral exposition on their memorandum on scientific interests and research activity to be pursued at the CENIEH.

A series of questions will then be put to the candidate.

The points evaluated shall be technical knowledge of the subject, the coherence and uniqueness of its content, the capacity of the candidate to develop the methods and techniques to be used in the research, linguistic competence, and the fit of the presentation to the strategic and scientific mission and vision of the Center.

Candidates will receive an invitation by email and/or regular mail to inform them of the arrangements for this examination, which is **expected to take place around the week of January 13th 2025**.