

**CALL FOR CITMAga STAFF RECRUITMENT
JOB VACANCY**

TITLE: *"MATHEMATICAL RESEARCH IN OPTIMIZATION METHODOLOGY TO IMPROVE AND OPTIMIZE DECISIONS RELATED TO AN ENERGY MANAGEMENT PROBLEM".*

JOB VACANCY REFERENCE: CITMAga-OT-10/2026.

DESCRIPTION OF JOB POSITION: 1 full-time as a collaborator researcher.

ACTIVITIES TO BE CARRIED OUT: to carry out research tasks within the framework of the project *"MATHEMATICAL RESEARCH IN OPTIMIZATION METHODOLOGY TO IMPROVE AND OPTIMIZE DECISIONS RELATED TO AN ENERGY MANAGEMENT PROBLEM".*

FUNCTIONS TO BE PERFORMED: to carry out research work in optimization focused on:

- Reviewing and studying the state of the art of solution techniques and algorithms for nonlinear problems with pooling constraints.
- Formalizing the mathematical problem within the specific context, defining the topological structure through a graph.
- Developing the theoretical framework for the different mathematical formulations and solution methodologies identified as most promising during the review of the state of the art.
- Analyzing and processing the input data for problem formulation.

The work will include monitoring and implementing the algorithms and the different formulations proposed, validating and comparing the implemented methodologies and algorithms to identify which mathematical approach performs best and solves the problem most effectively.

RESPONSIBLES: Prof. Ángel Manuel González Rueda.

CANDIDATES PROFILE: Graduates, Engineers, and equivalents.

MERITS AND REQUIREMENTS TO BE ASSESSED:

Training and general experience to be assessed (40 points, all contributions must be documented).

- Bachelor's/Undergraduate/Engineering degree transcript. Master's degree transcript (if applicable). The degree of relevance of the candidate's qualifications to Mathematics, particularly in areas related to optimization, will be assessed. (12 points).
- Knowledge and prior experience in modeling optimization problems (14 points).
- Knowledge and experience in implementing methodologies for solving optimization problems (14 points).

Knowledge and additional and specific experience to be assessed (30 points, all contributions must be documented).

- Practical experience in solving optimization problems in the energy sector and, specifically, in the petrochemical sector. (10 points)
- Experience in modeling and solving optimization problems under uncertainty. (5 points)
- Training and practical experience in modeling physicochemical processes. (5 points)
- Experience in programming using scientific computing languages. (5 points)
- Experience with the Microsoft Azure platform and reporting technologies such as MS Power BI. (5 points)

Personal interview (30 points).

Candidates achieving the best assessments according to the above criteria will be called to a personal interview. At least the three best rated candidates will be interviewed and between the two previous sections have reached at least 40 points.

General criterion of the selection process: that under equivalent conditions of suitability (equal merits) between two or more candidates, the person of the least represented sex in the type of position offered will access the position.

GENERAL REQUIREMENTS FOR CANDIDATES

To be admitted the applicants, in addition to fulfilling the specific requirements demanded in the activity or project for which they make their request indicated in the previous point, they must have on the day of completion of submission of applications and keep them until the expected date of completion of the contract, the following general requirements:

- Be Spanish or national of any of the other Member States of the European Union or national of any state to which, by virtue of international treaties concluded by the European Union and ratified by Spain, the free movement of workers applies.
- The spouse of Spaniards and nationals of one of the other Member States of the European Union may also participate, whatever their nationality, and when the corresponding treaty

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so provides, or of nationals of a state to which by virtue of the international treaties concluded by the European Union and ratified by Spain, the free movement of workers applies to them, provided they are not legally separated. Likewise, with the same conditions, their descendants and those of their spouse, under the age of twenty-one or older than that who live in their charge, may participate.

- Likewise, nationals of countries that are not members of the European Union or that are not included in the scope of international treaties concluded by the European Union and ratified by Spain in which the free movement of workers is applicable may participate. However, the formalization of the employment contract with these nationals is conditioned to the applicants having granted the exception or work permit and legal residence in Spain.
- Be at least 16 years old.
- Being in possession of the valid degree in Spain that is indicated according to Spanish legislation.
- Be in possession of the title and other requirements demanded in the call for each category at the end of the application period.
- Not suffer any disease or be affected by physical or mental limitation that is incompatible with the performance of the corresponding functions.
- Not to be separated, by means of a disciplinary file from the service of any of the public administrations, nor to be disabled for the performance of public functions.

CONDITIONS:

Gross monthly salary: 1.799,21 € in 14 payments.

Planned start date: the day following the resolution of the contract award.¹

Contract type: Contract for production circumstances.

Employment status: collaborator researcher.

Duration of the contract: 4 months, until 31 of December 2026 ².

Workday: Full-time position (35 hours per week).

EVALUATION COMMITTEE:

Candidate's applications will be assessed by an Evaluation Committee. This Committee will be made up of the scientific head of the Project, who will chair it, the scientific members of the project research team assigned to CITMAGA.

¹ The planned start date could be modified depending on the date of resolution of the contract award. The contract will become in force at the same time that the service enters in effect.

² The duration of the contract could be modified depending on the date of resolution of the contract award and the duration of the research activity/project.

Members of the Specialized Selection Commission:

- President: Ángel Manuel González Rueda.
- Secretary: Julio González Díaz.
- Vocal: Mercedes Conde Amboage.

WORKPLACE: The Galician Centre for Mathematical Research and Technology (CITMAGA), Campus Vida, Santiago de Compostela.

SUBMISSION OF APPLICATIONS:

People interested in this contract must send their applications before August 21 st 2026, 23:59 Spanish official time. Application should include a cover letter summarizing the applicant's career (general training and experience to be assessed, as well as additional merits referred to in the call), a curriculum (with mobile phone and email), and the academic title and transcript of degree and master; the "*work life*" (which proves the professional merits that appear in the curriculum vitae); and the accreditation of all the merits provided in the sections "Merits and requirements to be assessed" (other certificates). All documentation must be sent to the following email address: itmati@citmaga.gal indicating the job vacancy reference CITMAGA-OT-10/2026. The receipt of requests will be confirmed by email. Candidates who are invited to the interview phase must provide original documentation of the merits provided.

DEADLINES AND RESOLUTION:

Reception of applications: until August 21 st 2026 at 23:59 p.m., Madrid local time.

Evaluation of applications and personal interviews: the week of 24 the of August 2026.

Resolution of the call: the week of 31 the of August 2026, to starting on 1 st of September 2026.

WAITING LIST

After the resolution of the call, the candidates who were not selected and meet the requirements established in the criteria of the call for positions, and respecting what is indicated in the call, may constitute a "waiting list" within the framework of this call. in order of merit and worth, as long as seventy points were reached. This "waiting list" will be made public on the same day as the resolution of the call and will be in force for a period of 6 months. The Evaluation Commission of the call, if it deems it appropriate, may make use of the "waiting list", as long as any worker resigns or causes voluntary withdrawal within the framework of the contract and during the time established and in force for the contract. "Waiting list".

CHARACTERISTICS OF CONTRACTS

The personnel hired through this call will be dedicated exclusively to carrying out the activities of the project/activity that originates the call, so the duration of the contract is directly linked to the life of the specific project/activity, as well as well as the existence of specific financing derived from it. The contracts will be carried out under the contract modality due to production

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circumstances. The contemplated amounts may undergo variations established by the applicable regulations or due to unexpected causes not initially foreseen.

Those selected who are in possession of a foreign degree must submit, at the time of signing the contract, an application for equivalence of the degree and the academic level required for the open call, in which they were selected, or the homologation in the case of degrees that enable a regulated profession, in accordance with Royal Decree 967/2014, November 21, which establishes

the requirements and the procedure for the homologation and certificate of equivalence and official university academic ranking and the validation of foreign studies of higher education, and the procedure to determine the equivalent level in the Spanish framework of qualifications for higher education in official degrees of Architecture, Engineering, Technical Architecture, Technical Engineering and Diplomas.

The gross remuneration of contracts is specified for each case. The contract will also require the registration in the General Social Security Scheme. The amounts referred to may be subject to changes established by the regulations applicable to them or by unexpected causes not initially foreseen.

THE NATURE OF THE CONTRACT

The recruitment does not imply any commitment regarding the subsequent incorporation to the staff of the CITMAga.

SUBSIDIARY RESPONSABILITIES

People hired must maintain the confidentiality of the activity they carry out, as well as keep secrecy of all issues and issues inherent to it and of which they are aware.

INCOMPATIBILITIES

The contracts subject to the call are subject, as far as their incompatibility regime, to the provisions of Law 53/1984, of December 26, on incompatibilities of the Personnel in the Service of Public Administrations.

INFORMATION ON PERSONAL DATA PROTECTION (RGPD 2016/679 and LOPDGDD 3/2018)

RESPONSIBLE FOR THE TREATMENT: THE GALICIAN CENTRE FOR MATHEMATICAL RESEARCH AND TECHNOLOGY (CITMaga);

PURPOSE OF PROCESSING: The management of applications linked to the selection process;

LEGITIMATION FOR PROCESSING: Consent of the interested person (article 6.1a of the RGPD);

RECIPIENTS OF THE DATA: No data will be transferred to third parties;

CONSERVATION PERIOD: The data provided will be kept for a maximum period of two years;

EXERCISE OF RIGHTS: interested parties may request access, rectification or deletion of their data, opposition, limitation of processing and, where appropriate, withdraw the consent granted by sending an email to dpd@citmaga.gal.

CONTACT DELEGATE DATA PROTECTION AND ADDITIONAL INFORMATION: dpd@citmaga.gal

All information regarding this call, as well as the resolution of this, will be published on the CITMaga website: <https://citmaga.gal/procesos-seleccion-personal>.

Eduardo García Río
Scientific Direction of CITMaga.

CIT
MAG^A

Salida:

28 / 07 / 2026

Nº Registro:

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Sinatura dixital / Firma digital / Digital signature

Asinante/Firmante/Signer: EDUARDO GARCIA RIO,
NIF ***8044**, 28/07/2026 16:00:30.

CSV: 6CE2-BDCD-4FFC-934D