

## ANNEX III

REF: 2017/CP/076

**RECRUITMENT CALL  
FOR 4 POST-DOC RESEARCHERS****GRANT**

GRANT: ED431G/01 Contract financed by the grant for the accreditation, structuring and improvement of the Singular Research Centres and Consolidated Strategic Alliances of the University System in Galicia, of the "Consellería de Cultura, Educación y Ordenación Universitaria de la Xunta de Galicia, which is jointly financed by the European Regional Development Fund (ERDF), of the Operative Programme ERDF Galicia 2014-2020 on a percentage of 80% and by the Xunta de Galicia on a percentage of 20%. Call order 11/08/2016 of the "Consellería de Cultura, Educación y Ordenación Universitaria".

CENTRE: CITIC- Information and Communication Research Centre. Vice-rectorate for Science Policy, Research and Transfer of the University of Coruña (UDC)

AIM OF THE CONTRACT: Recruitment of 4 post-doc researchers  
Collaborator of the research tasks stated.

PLACE AND SCHEDULE: CITIC Building. Monday to Friday, 9am to 2pm and 4pm to 6.30pm (37,5h)

CONTRIBUTION GROUP IN THE GENERAL SOCIAL SECURITY PLAN: Group I

PROFESSIONAL CATEGORY \*(AGREEMENT OF THE 17TH NOVEMBER 2014 ABOUT THE RECRUITED STAFF FUNDED BY CHAPTER VI OF THE UDC BUDGETS)

ASSOCIATED RESEARCHER

|             |           |
|-------------|-----------|
| WORKING DAY | Full Time |
|-------------|-----------|

|                 |   |                           |           |
|-----------------|---|---------------------------|-----------|
| CONTRACT PERIOD | 30 Months (until October 2019 included) | APPROXIMATE STARTING DATE | mayo 2017 |
|-----------------|---|---------------------------|-----------|

GROSS REMUNERATION : 2.012,50€/month including extra pay. Co-Financed Salary with ERDF FUNDS

PARTIDA ORZAMENTARIA: 6140240508-541A-6490200

\* Remuneration will be distributed in 12 monthly payments (the proportional part of the corresponding extra pay shall be included in each monthly payment)

**REQUIREMENTS**

QUALIFICATION: Technical University Degree. See the report for the call

EXPERIENCE: See the report for the call

REQUIREMENTS: Requirements must be met before the application form submission deadline expires.

**PLACE AND APPLICATION AND DOCUMENT SUBMISSION****Documents the candidate must submit**

1. Photocopy of National Identity Card (D.N.I.) or Passport.
2. Photocopy of academic qualifications.
3. Curriculum vitae.

*\*Agreement about job classification, work conditions and reference framework of staff representation hired for projects and R&D agreements financed through Chapter VI of the UDC budgets. Signed the 17/11/2014 between the UDC and the trade unions CCOO and CIG*



PLACE: Send documents require don the report by email [tocitic@citic-research.org](mailto:tocitic@citic-research.org), with the **heading Ref.POSdoc**

DEADLINE: Until 03/04/2017 at 23:59h (GMT+1)

#### SELECTION BODY AND RESOLUTION DISCLOSURE

BODY: See the report for the call

PLACE OF RESOLUTION DISCLOSURE: Advertisement section of the UDC website and CITIC [www.citic-research.org](http://www.citic-research.org)

**A Coruña, 7th March 2017**

**MAIN RESEARCHER**

**Asdo.:** Manuel González Penedo

#### **Documents the candidate must submit**

1. Photocopy of National Identity Card (D.N.I.) or Passport.
2. Photocopy of academic qualifications.
3. Curriculum vitae.

## ANNEX CONTRACT

# RECRUITMENT REPORT FOR THE TRAINEE RESEARCH STAFF TO THE SINGULAR RESEARCH CENTRE CITIC

The University of A Coruña, for its CITIC centre (Centro de Investigación en Tecnologías de la informática y las comunicaciones, is the beneficiary of the Aid (ED431G / 01) for the accreditation, structuring and improvement of Singular Research Centers (by Xunta de Galicia – Regional Government Institution) and Consolidated Strategic Groups of the University System of Galicia, of the Culture, Education and University Management Department of the Xunta de Galicia, which is co-financed by the European Regional Development Fund (ERDF) (FEDER – Fondo europeo de Desarrollo Regional), under axis 1 of the FEDER Galicia 2014-2020 Operational Program (Specific objective 1.2.3), in a percentage of 80% (Ordinance 11/08/2016 of the Consellería de Cultura, Educación y Ordenación Universitaria (Culture, Education and University Management Department) -DOG .: 31/08 / 2016- and resolution of concession of 24/11 / 2016. DOG .: 12/9/2016), and the remaining 20% of the General Secretariat of Universities, belonging to the Culture, Education and University Management Department of the Xunta de Galicia.

Under the protection of this aid, and as one of the objectives of the Strategic Plan 2015-2019 of the CITIC the promotion of scientific degrees and the recruitment of talent, this current call is made for the recruitment of young doctors who complete their Postdoctoral research training in this centre.

The main objective of these grants is to increase the critical mass of CITIC researchers by recruiting doctors who can be integrated into their research groups, with scientific and academic credentials, and who can carry out their work within the framework of research projects of the CITIC Technology Areas.

### AIM

The aim of this call is the recruitment, in a competitive concurrence and applying the principles of equality, merit, publicity and objectivity, of research personnel who wish to develop their postdoctoral period in one of the research lines and under the direction of the CITIC Research Groups listed in Annex I.

A minimum of 4 contracts are called, a number that may be incremented depending on budget availability.

## APPLICANTS' REQUIEREMENTS

1. To be in possession of the title of Doctor. The date of defense and approval of the thesis must be after January 1, 2012.
2. Have made international stays for at least 6 months in R & D Centers other than the one in which he / she performed his doctoral thesis. The mobility requirement will be considered fulfilled for those researchers who have completed and obtained a doctorate in a foreign university.

## AMOUNT, DURATION AND CHARACTERISTICS OF THE AID.

1. Predictably, the incorporation date of the researcher hired to his job will be May 2017. the extension of the contracts until October 2019 is foreseen.
2. The minimum salary pay by researchers hired given during this period will be of € 2,012.50 / gross month.
3. The type of contract will be that of a full time Associate Researcher.
4. The contracts will have an annual duration that can be extended upon a favorable report from the evaluating committee of the hired person's activity.

## FINANCING OF THE AID.

1. The total amount foreseen for contracting amounts to € 131,000, charged to budgetary implementation 6140240508.541A.6490200.
2. The total number of contracts may be increased if budget availability exists. In this case the appeal will be made according to the priority of the reserve list and following the established procedure in this call.

## RESPONSABILITIES OF THE CONTRACTING ENTITY

The contracting entity will have the following obligations:

- A) Formalize a contract with the selected candidates.
- B) Provide them with the necessary support and facilitate the use of the facilities, equipment and material means necessary for the proper development of their activity.
- C) Designate a person responsible for conducting all the research tasks of the selected researcher.

## APPLICATION SUBMISSION.

1. The presentation period will be up to 15 working days from the publication of this call in the TEO (tablón de anuncios de la sede de la UDC - bulletin board of the electronic headquarters of the UDC) until 15:00 hours (Spanish peninsular time).
2. The candidate will complete the electronic application form that will be available at <http://www.citic-research.org>. Each application will be referred exclusively to ONE of the lines of research listed in the Annex to this call.
3. In addition to the application, the following shall be attached in electronic form:
  - A) Copy of the passport in force, in the case of foreign citizens who are not residing in Spanish territory.
  - B) Curriculum vitae, in the standard curriculum vitae (CVN) format available through the website <https://cvn.fecyt.es/>.
  - C) Report of the candidate's research career as well as the main line of research he/she has developed, highlighting up to five of their most relevant contributions from those included in his CV. It will also include a brief description of the research work it proposes to develop within the framework of the selected Annex line
  - D) Copy of the doctorate degree or academic certification, where an explicit indication of the date of when the doctorate degree was obtained.
4. A request will not be accepted when the candidate's career or proposed future line of research is not adequate to the activity of the CITIC scientific area in which the application is made.
5. The application must be submitted in Spanish or English only, sending the above documents by e-mail to [citic@citic-research.org](mailto:citic@citic-research.org).
6. Failure to comply with the terms of this call, breach of the requirements established therein, and / or the concealment of data, or any manipulation of the requested information will cause the application to be inadmissible.
7. The submission of the application entails the knowledge and acceptance of these regulatory bases, as well as the consent of the participating individuals for publicity purposes and processing of the personal data that appears in them, and the consent for other authorities, Administrations or suppliers, through electronic

means to gather and verify the information about the applicants' circumstances or the application that, according to the call and applicable regulations, are relevant for the carrying out of the procedure.

## **AMENDMENT OF APPLICATIONS.**

If the documents submitted were incomplete or were to contain errors, the applicant will be required to correct them within 5 working days. If you do not, you will be deemed to have withdrawn their application. During the amendment period, the applications submitted may not be edited.

## **COMMUNICATIONS BETWEEN THE ENTITY AND THE INTERESTED.**

The communications of all the actions that are carried out during the grant awarding procedure will be through the email address provided in the application.

## **APPLICATION EVALUATION.**

The relevant office that will carry out the procedure for granting aid will be the CITIC Evaluation Committee.

1. Applications will be evaluated according to the following criteria and subcriteria:

A) Candidate curricular merits. Score: from 0 to 65 points.

1. Contributions. The relevance and contribution of the candidate in published articles in scientific journals, books or chapters of scientific and technical books, papers presented at congresses, patents granted or licensed, and, in general, any other contribution that will allow to value the different aspects of research, including technology transfer will be taken into consideration. Particular relevance will be given in the evaluation of this section to the contributions that the candidate has indicated for that purpose in the memory of the research trajectory and the line of research. Score: From 0 to 45 points.

2. Participation in international activity. Direct involvement in international research programs, projects or contracts, such as actions related to European Research Council programs, other competitive programs of the Framework Program (Programa Marco) or other International Agencies, as well as funding obtained from them and international mobility (experience Pre or postdoctoral in countries other than their country of origin, etc.) will be valued. Score: From 0 to 15 points.

3. Rest of curricular merits. Any other contribution that allows to value curricular merits not included in the other sections, including scientific outreach activities will be valued. Score: From 0 to 5 points.

B) The candidate's ability to lead his line of research, based on scientific and professional experience as well as independence in his career. It will be valued through aspects such as the direction of research works (research directors in training, main investigator in scientific publications, doctoral theses, etc.), relevance and recognition of their line of research (invitation to international congresses, plenary lecturer, Prizes, mentions and distinctions), ability to obtain resources (funding as a main project investigator, contracts, etc.) and any other aspect that allows assessing merits related to independence, relevance and leadership in the line of investigation present in the candidate. Score: From 0 to 20 points.

C) The evaluation process may include face-to-face interviews or videoconferences. Such actions will respond to a public call for all applicants, respecting the principle of equal opportunities. Score: From 0 to 15 points.

2. The evaluation will be carried out by an Evaluation Committee composed of:

- The research unit scientific director of the CITIC: Francisco Manuel González Penedo
- The Deputy Coordinator of CITIC: Bertha Guijarro Berdiñas
- One person of the CITIC staff who will act as secretary with no voice and no vote
- The main Investigator of each of the research groups in Annex I or person of the group in which he / she delegates (stable teaching staff of the UDC).

3. The Evaluation Committee will issue a reasoned report, in which the result of the evaluation will be specific, and where the selected and reserved applications will be proposed, according to the following and with the budget availability:

A) Only those applications that have scored equal to or greater than 70 points in criteria 1-a and 1-b may be proposed for contracting,

B) The proposal of candidates will be in order of scoring, with the exception that only one contract will be financed for each of the research lines of the Annex. Exceptionally, an additional candidate may be assigned to a line as long as there are no candidates to cover other lines.

C) A reserve list will be prepared according to the scores.

D) In the cases of applications that obtain the same score, the tie will be settled in favor of the application that has the highest score in the evaluation of the other criteria and sub-criteria in the order in which they are cited. If the tie persists, this will be settled expressly by the Evaluation Committee based on the candidate's CV and the research line requested.

## **RESOLUTION PROPOSAL, COMPLAINTS AND ACCEPTANCE.**

1. The provisional resolution proposed will be published in TEO of the UDC.
2. The interested parties will have a period of 5 calendar days starting the day after the publication of this resolution to make allegations. In this process, the applications submitted cannot be reformulated.
3. At the end of this period, the final resolution proposal will be published in TEO of the UDC. It will indicate the selected candidates and the assigned research line, the reserve list, the list of rejected candidates.
4. The final candidates will have 5 calendar days to communicate the acceptance of the contract. This acceptance entails the authorization of the granting body to obtain, in the cases in which it is legally enforceable, the certificates proving the veracity of the documentation presented in the application.

## **CONTRACT PROCESSING AND INCORPORATION OF PERSONNEL.**

1. The contract will be in accordance with the publicity instructions of the Secretaria General de la Universidades de la Consejería de Cultura, Educación y Ordenación Universitaria - Xunta de Galicia, established for the aid for the certification, structuring and improvement of singular research centers and established Strategic groups of the SUG (2016 call). It must bear a stamp on the front stating the following circumstances:
  - A. ERDF (FEDER) logo
  - B. Logo of the Secretaria Xeral de Universidades, Xunta de Galicia Logo
  - C. The phrase "jointly financed at 80% by the ERDF, within the framework of the grant for the accreditation, structuring and improving of singular research centres and consolidated strategic groups and the remaining 20% of the Secretaría General de Universidades, belonging to the Consellería de Cultura, Educación y Ordenación Universitaria of the Xunta de Galicia"



2. The researchers to be hired must formalize their contract and join CITIC within a maximum period of one month from the day following the publication of the final resolution. If this is not the case, the resignation may be deemed understood.

## **RESIGNATION AND INCORPORATION OF RESERVE CANDIDATES.**

1. The resignations of the candidates side or the non-fulfillment of the necessary requirements for their recruitment may lead to the incorporation of reserve candidates.
2. This incorporation must be done according to the priorities of the reserve list and following the award procedure established in this call.
3. The resignation or non-compliance with the requirements for the recruitment of the selected candidate must be documented.

## **SCIENTIFIC-TECHNICAL MONITORING.**

1. The scientific and technical monitoring of the work carried out by the research staff hired corresponds to the scientific responsible for this aid, which will establish the appropriate procedures and which may designate the commissions or experts that he/she deems necessary.
2. The contracted research staff should prepare an annual scientific and technical follow-up report and a final report covering the whole contracting period, using the models provided in sufficient time. These reports will include a description of what has been done (publications, stays in other centres, attendance to congresses, etc.), the evolution of the contractor's research line and its contribution to the scientific production of the Research Group, as well as a work plan for the next period. Together with the final report, an updated curriculum vitae of the researcher will be attached.
3. The evaluation of the reports will have the result of Favorable or Unfavorable. The positive outcome of the mid-evaluations will be necessary to maintain the continuity of the contract

## REGIME OF COMPATIBILITIES

1. The researchers recruited may participate in additional mobility programs, with a maximum of eight months during the execution of the aid.
2. The contracted personnel may collaborate, for training purposes and up to a maximum of 60 hours per year, in the teaching tasks of a Department of the Computer Science Faculty, at their own request and with prior authorization from the University itself, in accordance with what is established in the art. 22.1.e) of Law 14/2011, on Science, Technology and Innovation. In no case, these tasks may detract from the dedication to the research purpose of these grants.

## PUBLICITY

In compliance with the Instructions for publicity of the Xunta de Galicia of 02/20/2017, the beneficiaries must publicize the origin of the financing of the subsidized activity, making explicit reference in all publications, presentations, etc. Including the following text:

"This work has received financial support from the Consellería de Cultura, Educación Universitaria (Centro singular de Investigación de Galicia accreditation 2016-2019) and the European Regional Development Fund (ERDF - FEDER) 80%, FEDER Galicia 2014-2020 Operational Program and the 20% remaining from the Secretaría General de Universidades, belonging to the Consellería de Cultura, Educación y Ordenación Universitaria of the Xunta de Galicia."

## ANNEX: RESEARCH LINES

### 1. Computer Architecture and High Performance Computing

Keywords: Supercomputing, parallel computing, computer architecture, cloud computing, GPGPU, cluster computing, robotics, heterogeneous computing, hardware accelerators

Responsible Research Group: GAC <http://gac.udc.es>

Requirements: Advanced Computer Science degree preferably, CVs of related qualifications will also be studied such as telecommunications engineering.

### 2. 5G radio interface techniques.

Keywords: mmWave, masive MIMO, high mobility, hardware demonstrators

Responsible Research Group: GTEC <http://gtec.des.udc.es/web/>

Requirements: Applicants are required to hold a PhD in Electrical or Computer Engineering (or equivalent Qualifications) with a specialization in wireless communication engineering.

### 3. Information Retrieval & Recommended Systems.

Keywords: Retrieval Models. Learning to Rank. Text Mining & Analytics. Personalized Information Access. Social Recommenders. Evaluation.

Responsible Research Group: IRLab [www.irlab.org](http://www.irlab.org)

Requirements: Ph. D. in Computer Science

### 4. Medical Image Processing and Analysis

Keywords: Image Processing, Computer Vision, Medical Image, Computer-Aided Diagnosis, Image Segmentation, Statistical analysis, Registration.

Responsible Research Group: VARPA [www.varpa.es](http://www.varpa.es) / [www.varpa.org](http://www.varpa.org)

Requirements: Doctor in Computer Science or Mathematics. Advanced knowledge in image processing and analysis methodologies (in the medical field), segmentation, recording, data analysis, computational models (Neural Networks (Deep Learning), Genetic Algorithms, Automatic Learning, etc.)

## 5. Statistics and Operational Research

Key words: survival analysis, big data, supervised and unsupervised classification, ROC curves, compositional data, dependent data, functional data, small area estimation, resource management, nonparametric and semiparametric inference, kriging, optimization, routes, Decision support systems, game theory

Responsible Research Group: MODES <http://dm.udc.es/gmodes/>. Contact: [rcao@udc.es](mailto:rcao@udc.es)

Requirements: Doctorate degree and experience in publications in statistics and / or operational research

## 6. Security techniques and methodologies in communications networks using mass analysis tools for the detection of intrusions and other types of attacks.

Keywords: Collective Intelligence, Cybersecurity.

Responsible Research Group: TELEMATICA

[Http://investigacion.udc.es/gl/Research/Details/G000286](http://investigacion.udc.es/gl/Research/Details/G000286)

Requirements: Advanced Degree in Computer Science

## 7. Mathematical methods and numerical simulation in engineering and applied sciences

Keywords: mathematical models, differential equations, numerical simulation, industrial problems

Responsible Research Group: M2NICA <http://dm.udc.es/m2nica/en>

Requirements: Advanced degree in the fields of Engineering or Sciences and Doctorate in research lines related to the group

## 8. Computational learning

Keywords: Automatic learning, Learning in distributed environments, Scalability, Feature selection, Signal processing, Biomedical applications. Systems of aid to the decision making

Responsible Research Group: LIDIA <http://www.lidiagroup.org/>

Requirements: Doctor in Computer Engineering

9. Research in Artificial Intelligence techniques applied to the productive sector: Medicine and Civil Engineering

Keywords: Artificial Neuronal Networks, Evolutionary Computation, eHealth, mSalud, participatory health, heterogeneous data integration, Civil Engineering (Ports and Coasts, Hydraulics and Construction), Artificial Vision, Active aging, quality of life, wearables, support products , Disability

Responsible Research Group: RNASA [www.imerdir.udc.es](http://www.imerdir.udc.es)

Requirements: Advanced degree in Computer science or related qualifications of the technological field with experience in the described line.