RECRUITMENT PROCEDURE FOR A POSITION IN GEODESY/GEOPHYSICS

1. Framing

An international recruitment procedure is opened for a position in Geodesy and Geophysics, to develop scientific activities in the areas of Geodynamic, Earth gravity, and Atmospheric processes. This procedure is carried out within the scope of ASSOCIAÇÃO PARA O DESENVOLVIMENTO DO AIR CENTRE (AD AIR CENTRE)'s activities and its association with Associação RAEGE Açores – Rede Atlântica de Estações Geodinâmicas e Espaciais (A-RAEGE-Az), located in Santa Maria, in the Azores archipelago, as scientific facility. The undefined term employment contract is expected to be signed on 01 October 2020. The contract envisages activities framed within the Atlantic Interactions scientific agenda, namely focused on the deformation of the Earth's crust due to mass redistribution, inter- and intra-plate tectonics, loading effects, variations in earth orientation and rotation, and the spatial and temporal variation of atmospheric water vapour, based on a variety of observational techniques, in particular geodetic Very Long Baseline Interferometry (VLBI) and Global Navigation Satellite Systems (GNSS). The aim is to foster the development of projects in these areas in Azores, Europe and in the USA, and in the participation in space geodesy networks such as IVS (International VLBI Service) or IGS (International GNSS Service). It is envisaged the possibility of enrolling in a PhD program.

Collaboration with the USA is envisaged through the Lowell Center for Space Science and Technology (LoCSST,) at the University of Massachusetts, Lowell (UMass Lowell or UML). The mission of LoCSST is to bring leaders in space exploration from universities and industry from across the globe to study and understand interactions between Earth and the solar system and beyond. LoCSST's collaborative efforts on a) Science about space such as characteristics of Earth, planets, stars, galaxies and regions in between b) Science from space such as remote sensing and c) Technology such as instrumentation, systems, control, communication, operations and data analysis.
2. Legislation

The legislation applicable to the current recruitment process and to the employment contract is the Code of Administrative Procedure, published through Decree-Law no. 4/2015, of January 7, in its current version and Portuguese Labour Code approved by Law n.º 7/2009 of February 12, in its current wording (both can be found in www.dre.pt).

3. Jury

The jury for the evaluation process is composed by:

President: **Emir Sirage, Director of Operations, AD AIR Centre (TBC)**

Effective Member: **Rui Manuel da Silva Fernandes, Assistant Professor at Universidade da Beira Interior, Portugal**

Effective Member: **José António Lopez Fernandez, Deputy Director at Instituto Geografico Nacional, Ministerio de Fomiento, Spain**

Effective Member: **Supriya Chakrabarti, Director at Lowell Center for Space Science and Technology, University of Massachusetts Lowell, USA**

Effective Member: **Francisco Luís Wallenstein Faria e Maia de Macedo, President of the Board of A-RAEGE-Az, Portugal**

4. Work Place

The work will be based at the RAEGE facilities in Santa Maria. Regular visits to the facilities in Flores are expected once the project justifies it.

5. Remuneration

The gross monthly payment will be 2.200,00 € (negotiable)
6. **Formalization and deadline application**

The application must be submitted by e-mail as one single PDF document (according to the following naming: *Name-Surname_Geodesy2020*) to recruitment@aircentre.org, with reference to “Projeto RAEGE Açores/GEODESY”, with the following attached documents:

A. Motivation Letter;

B. Curriculum vitae;

C. Academic qualifications certificates;

D. Professional experience certificates;

E. Letters of recommendation (optional, maximum two);

The deadline for applications begins on the day following the publication of this notice and runs until 31 July 2020, 18:00 (GMT).

Incomplete and incorrect applications will be excluded from the evaluation process. In case of doubt, the jury may request proof of elements of the CV to the candidates. False statements will be punished according to the law. The list of admitted and excluded candidates and the final classification list will be sent by e-mail requiring receipt/reading notification.

7. **Admission Requirements**

7.1. **Academic Qualifications**

MSc in the area of Geosciences, Engineering, Applied Mathematics and Physics, Data Sciences or similar areas, preferably with a scientific and professional *Curriculum Vitae* that proves relevant for the activities to be developed. The position is meritorious for future duties within academia as well as industry/public sector. In case of a diploma awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 66/2018, of August 16, and any formalities established there must be fulfilled by the deadline.
date for the application. PhD ambitions will be valued and support to engage in a Doctoral Program is envisaged.

7.2. Specific Requirements

Candidates are expected to have an interest in Space Geodesy activities and applications. Previous experience in Very Long Baseline Interferometry (VLBI), Global Navigation Satellite Systems (GNSS), Gravimeters and Tide gauges (including GNSS Reflectometry) will be valued but not factor of exclusion. Flexibility to travel and exchange with foreign institutes is important.

8. Selection / Evaluation Criteria

The scientific/professional path of the candidates (SPP) shall be scored with focus on the activities carried out over the last three years and on the motivation letter, as follows:

a) MSc conclusion - 1 point per year of working experience after MSc conclusion (up to 3 points);

b) Involvement in scientific projects – 0 to 5 points;

c) Experience in technology development - 0 to 3 points;

d) Motivation letter (expressing motivation and career ambitions, such as pursuing further experience and/or training related to the position) – 0 to 5 points

The above-mentioned three-year period may be extended by the jury, at the candidate’s request, when justified by suspension of the scientific/professional activity for force majeure reasons (e.g. parental leave, illness, among others).

Requirements for the position, namely Academic Qualifications (AQ) and Relevant Specific Experience (RSE), shall be valued as follows:
Academic Qualifications (AQ)

- MSc in a field directly relating to Geodesy - 3 points
- MsC in another field - 1 point

Relevant Specific Experience (RSE)

- Demonstrable Experience with Very Long Baseline Interferometry (VLBI) - 2 points
- Demonstrable Experience with Global Navigation Satellite Systems (GNSS) - 2 points
- Demonstrable Experience with Gravimeters - 2 points
- Demonstrable Experience with Tide gauges (including GNSS Reflectometry) - 1 point
- Demonstrable Experience with manipulation of Big Data - 1 point

Each jury member shall provide a score for SPP, AQ and RSE for each candidate. The final score (FS) of each candidate will be calculated as the arithmetic average of the scores attributed by all members of the jury, as follows:

\[ FS = \frac{\sum_{i} SPP_{i} + AQ_{i} + RSE_{i}}{5}, \text{ where } i = \text{jury member} \]

The candidates with the three highest scores will be invited for an interview (via videoconference, if necessary), during which communication skills and CV clarification will be evaluated. Each jury member may add a maximum of 3 points to the final score of the candidate, based on the interview.