Romanian Space Agency

Open vacancy: **Scientific Research Assistant**

in the framework of the project "Multidisciplinary Complex Project
for the Monitoring, Conservation, Protection and Promotion of the Romanian Cultural Heritage"
(acronym RO-CHER, ID PN-III-P1-1.2-PCCDI-2017-0413, Contract no. 50PCCDI/2018)

Date of publication:	22/10/2018
Deadline for applications:	23/11/2018, 14:00
Type of contract:	Limited period
Job status:	Full time (40 hours/week)
Place of employment:	ROSA HQ 21-25 Mendeleev Street, 5th floor, 010362, District 1, Bucharest, Romania
Contract duration:	22 months (with possibility of renewal for at least 24 months)
Number of vacant posts to be filled:	2
Start Date:	01/01/2019

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Public Organization, Legal person by H.G. 923/1995
National space programme management.
Space development and policy.
Space research and technology development
ISO 9001:2015 Lloyd's Register Certificate No: BUC0170616
ISO 27001:2013 Lloyd's Register Certificate No: BUC6028563

1. Romanian Space Agency

The Romanian Space Agency (ROSA) is the coordinator of Romania's national and international space activities. The Romanian Space Agency (ROSA) is a public institution entirely self-funded, operating under Government Decision no. 923/20.11.1995 and the subsequent decisions of the Ministry of Research and Innovation. The mission of the Romanian Space Agency has four major components:

- to coordinate national space research and applications programmes
- to promote space development in Romania
- to represent the Romanian Government in international space cooperation programmes
- to research space related issues at the ROSA Research Center

As a coordinator of national space research and applications programme, ROSA designs and coordinates the implementation of the National Space Programme. Following its objectives, the Agency is authorised to establish research and development centers. At the same time, the Agency develops its own research and development projects through the ROSA Research Centre.

2. Tasks and responsibilities

The Scientific Research Assistant will be responsible for performing the activities that are foreseen in the work plan of the "Multidisciplinary Complex Project for the Monitoring, Conservation, Protection and Promotion of the Romanian Cultural Heritage".

In particular, his/her contribution may include the following non-exhaustive list of tasks:

- advancing the Earth Observation knowledge required to fulfil project tasks
- taking part in Earth Observation training programmes
- participating in specific research activities
- dissemination of the project results
- availability to travel; attend international meetings as required

3. Professional qualifications and other requirements

a. Eligibility criteria

The selection procedure is open to applicants who satisfy the following eligibility criteria, on the closing date for application:

- A level of education which corresponds to completed undergraduate university studies of at least three/four years attested by a Bachelor's diploma
- Be entitled to his or her full rights as citizen

b. Selection criteria

All eligible applications, according to the aforementioned criteria (part A), will be assessed against the requirements listed below. Non-compliance with at least one of the *Essential requirements* shall result in the exclusion of the candidate from the selection process. *Advantages* constitute additional assets and will not result in exclusion, if not fulfilled. When filling the application, candidates are expected to include elements that demonstrate that their profile matches the requirements below.

Essential requirements

- University degree in a relevant field (e.g. Engineering, Exact sciences, Geosciences, Information Technology, Geography, etc.)
- Computer skills: intermediate level (e.g. Internet and email, word processing, spreadsheets and databases, etc.)
- Have a satisfactory knowledge of the English language to the extent necessary to perform his/her duties

Advantages

- Being enrolled in a graduate programme and / or having a Master's degree in a relevant field (e.g. Engineering, Exact sciences, Geosciences, Information Technology, Geography, etc.)
- Basics of remote sensing
- Knowledge of the current common Earth Observation programmes, including satellite missions
- Excellent command of both written and spoken English

Behavioural competencies

- Motivation
- Excellent communication and team work skills
- Service mind-set, collaborative and result-oriented approach
- Ability to manage stress, to prioritise and to take appropriate and timely decisions

4. Selection procedure

The selection procedure includes the following steps:

- Candidates should submit their application at ROSA HQ, containing the following:
    - template for application form (to be found at http://www.rosa.ro/cariere/rosa)
    - curriculum vitae (Europass format) and list of published papers / list of practical applications and projects the candidate has attended / participated to
    - copy of the identity document/passport
    - photocopies of all documents certifying their educational qualifications necessary to prove that they meet the eligibility criteria

    ROSA has the right to disqualify applicants who fail to submit all the required documents.
- After registration, each application will be checked in order to verify that it meets the eligibility criteria.
- All eligible applications will be evaluated by a Selection Board based on the selection criteria defined in this vacancy notice.
- All eligible candidates will take a written test. In order to be invited for the interview, the minimum threshold for the written test is 70%. During the interview, the Selection Board will examine each candidate's profile and will assess their relevancy for this post. The minimum threshold for the interview is 70%. As a result of the written test and interview, the Selection Board will recommend the most suitable candidate(s) for this post. The final score is the arithmetic mean of the scores obtained at the written test and the interview. The minimum threshold to be placed on the reserve list is 70% of the total points.
- The successful candidate will be selected by ROSA from the best ranked candidates.
- If, at any stage of the procedure, it is established that any of the information provided by the candidate is incorrect, he/she will be disqualified.
- If needed, more information may be obtained at [irina.stefanescu@rosa.ro].

Dates for the written test and interview

- Written test: 26th of November, 2018, 11:00.
- Interview: 27th of November, 2018, 11:00.

Appeals may be submitted on the 28th of November, 12:00.

The final results will be published on the 28th of November, 15:00.

5. Bibliography (indicative)

- ESA's Living Planet Programme: Scientific Achievements and Future Challenges - Scientific Context of the Earth Observation Science Strategy for ESA, ESA SP-1329/2, February 2015, ISBN 978-92-9221-427-2, ISSN 0379-6566, ESA Communications, Noordwijk, Netherlands, available at https://esamultimedia.esa.int/multimedia/publications/SP-1329_2/.
- The Earth Observation Handbook: Satellite Earth Observations in Support of the Sustainable Development Goals, European Space Agency, Special 2018 Edition, © 2018 ESA, available at http://eohandbook.com/sdg/files/CEOS_EOHB_2018_SDG.pdf.
- Landsat - Earth Observation Satellites, Fact Sheet 2015–3081, ver. 1.1, August 2016, United States Geological Survey (USGS) and the National Aeronautics and Space Administration (NASA), available at https://pubs.usgs.gov/fs/2015/3081/fs20153081.pdf.
- The 2017-2019 Group on Earth Observations (GEO) Work Programme, GEO-XIV-5.4_rev, available at http://earthobservations.org/documents/work_programme/geo_2017_19_Work_Programme.pdf.
- Earth observation for decission making, The Organisation for Economic Co-operation and Development (OECD) – Better Policies for Better Lives, March 2017, available at http://www.oecd.org/environment/indicators-modelling-outlooks/Earth_Observation_for_Decision_Making.pdf.
- Remote sensing tutorials and textbooks (e.g. "Fundamentals of Remote Sensing - A Canada Centre for Remote Sensing Remote Sensing Tutorial", Natural Resources Canada, 2016, available at https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/earthsciences/pdf/resource/tutor/fundam/ pdf/fundamentals_e.pdf, "Principals of Remote Sensing - An Introductory Textbox", The International Institute for Geo-Information Science and Earth Observation (ITC), ISBN 978-90-6164-270-1, ISSN 1567-5777, Enschede, The Netherlands, available at https://webapps.itc.utwente.nl/librarywww/papers_2009/general/principles remotesensing.pdf, etc.).

On-line resources

- Satellites Pour l'Observation de la Terre (SPOT) programme - Centre national d'études spatiales (CNES), https://spot.cnes.fr/en/SPOT/index.htm, according to information available on the 19th of October 2018.
- Copernicus Programme - Europe's eyes on Earth, http://www.copernicus.eu/, according to information available on the 19th of October 2018.
- United Nations Sustainable Development Goals (UN SDGs), https://www.un.org/sustainabledevelopment/sustainable-development-goals/, according to information available on the 19th of October 2018.
- "Fundamentals of Remote Sensing" - NASA Applied Remote Sensing Training, webinars, https://arset.gsfc.nasa.gov/webinars/fundamentals-remote-sensing, according to information available on the 19th of October 2018.