



## ADVERTISING NOTICE

### competition for vacant positions within the PCCDI project 19/2018

The National Institute for Marine Research and Development "Grigore Antipa" - NIMRD Constanta, headquartered in 300 Mamaia Blvd., Constanța, is launching a competition, within the PCCDI Complex Project "Development of Security Applications Based on Complex Experimental Technologies Used in the Study of Cosmic Radiation - DEXTER" (Funding Contract No. 19PCCDI / 2018) - Component project 4: "Development of a new direction for monitoring ambient radiation at NIMRD by testing and commissioning a prototype of Black Sea shore monitoring station",

**2 full-time scientific research assistant positions, radioecology / environmental engineering specialization, for marine and coastal research activities**

#### Candidate profile:

- Higher education, specialization in engineering: physics, chemistry-physics, geophysics, environment, with a bachelor's degree in a faculty accredited according to the law;
- Enrollment in a master's or doctor's degree programme is an advantage;
- Knowledge of a foreign language of international circulation;
- Advanced computer skills;
- Motivation for research activity;
- Communication and teamwork skills;
- Work capacity at land and at sea.

#### Job requirements:

- Basic knowledge: general characteristics of the Black Sea; natural and artificial radioactivity; the interaction of radiation with matter; means of measuring radiation; environmental impact; radiation protection measures;
- IT knowledge, data processing programs, applications in physics / chemistry / environment, Internet browsing skills;
- Languages: English, very good;
- Knowledge the subject and bibliography mentioned in the advert;
- The average score of study years + bachelor degree should be at least 7.50.

#### Main Responsibilities:

- Assimilation of the knowledge needed to accomplish the assigned tasks within the project;
- Continuous training and improvement in the topic of the job;
- Participating in analyzes using the specific equipment of NIMRD;
- Participating in the processing, interpretation and dissemination of project results;
- Participation in different support activities specific to NIMRD's Radioactivity Lab.

#### Requested documents:

- 1 - application to enter the competition;
- 2 - a xerox copy of the identity document or any document attesting to the identity, according to the law;
- 3 - dated and signed Europass curriculum vitae;
- 4 - copies of the diplomas certifying the studies completed - the baccalaureate diploma, the bachelor's degree diploma with the transcript of record sheet, the master's degree, as well as other documents certifying the accomplishment of specializations;

Institutul Național de Cercetare-Dezvoltare Marină "Grigore Antipa" Constanța

CUI: RO1869096  
Cont: RO54818101401202694133XX - Banca Transilvania  
Certificat URS - OHSAS 18001:2007, Nr. 30431/A/0001/UK/Ro  
Certificat URS - ISO 14001:2004, Nr. 30431/B/0001/UK/Ro  
Certificat URS - ISO 9001:2008, Nr. 30431/C/0001/UK/Ro





- 5 - documents proving the length of service - copy of the workbook, revision report, certificates of seniority;
- 6 - criminal record or sworn statement that the applicant has no criminal record to make him/her incompatible with the job he/she is applying for;
- 7 - xerox copy of the birth certificate;
- 8 - xerox copy of the marriage certificate, if applicable;
- 9 - medical certificate, certifying the appropriate health status, issued by the family doctor or specialized health care units at least 6 months before the competition;
- 10 - certificate to show the quality of master's program/doctorate program (as the case may be).

The competition methodology for vacancies or temporary vacancies within NIMRD is displayed at NIMRD's notice board, on the homepage [www.rmri.ro](http://www.rmri.ro), or printed in NIMRD's Human Resources Office.

**Type of competition stage, place and date:**

- Stage 1: Selection of the files submitted for the competition;  
Stage 2: Written test;  
Stage 3: Interview

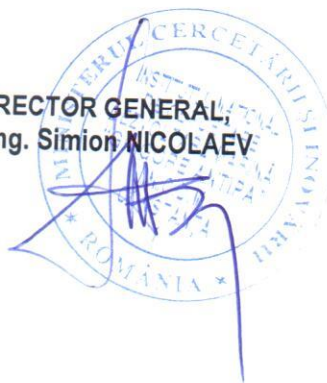
**The schedule and the bibliography related to the positions of scientific research assistant will be attached to the competition advert notice.**

**Deadline for submission of the application file:** Entry to the competition is made within 15 days from the date of publication of the announcement, and applications shall be sent to the address e-mail [office@alpha.rmri.ro](mailto:office@alpha.rmri.ro) or filed at NIMRD "Grigore Antipa" headquarters, 300 Mamaia Blvd., Constanța.

**Location of the competition:** NIMRD "Grigore Antipa" headquarters, 300 Mamaia Blvd., Constanța

**Additional information:** telephone 0241-543288 or 0241-540870 int. 129, contact person: **Ms. Oana MEITA**, Head of Human Resources Office

DIRECTOR GENERAL,  
Dr. Ing. Simion NICOLAEV







## COMPETITION SCHEDULE Research Assistant (2 job openings)

The contest for filling the positions of scientific research assistant in the field of radioecology / environmental engineering will consist of:

- **Selection of applications** submitted and display of eligible files: 1 working day after the deadline for application;
- **Appeals of file selection:** 1 business day after results display;
- **Settlement of appeals to file selection:** 1 business day.
- **Written test:** elaborating a written essay on the subject, lasting 3 hours. Candidates who have obtained the minimum score of 7 in the written test are admitted to the interview. The written test will be held on the day after the settlement of the complaints regarding the selection of the files;
- **Appeals of the written test:** 1 business day after results display;
- **Settlement of appeals for the written test:** 1 business day.
- **Interview:** An interview in the topic of the job. The interview will be held only by candidates who have obtained the minimum score of 7 in the written test. The interview will be held on the day following the settlement of the written contest appeals. The result of the interview is displayed the same day of the interview.
- **The final results** will be displayed within 3 working days of the written test. The final score is calculated as the arithmetic mean of the scores obtained at the written test and the interview and must be at least 7. The candidate who obtained the highest score among the candidates who competed for the same job is considered admitted, provided that they have scored the minimum necessary.

**Only appeals for procedural defects shall be admitted.**

Head of Human Resources Office,

Legal Adviser Oana MEITA





## Scope and Bibliography

For the competition for 2 full-time scientific research assistant positions, within the PCCDI Complex Project "Development of Security Applications Based on Complex Experimental Technologies Used in the Study of Cosmic Radiation - DEXTER" (Funding Contract No. 19PCCDI / 2018) - Component project 4: "Development of a new direction for monitoring ambient radiation at NIMRD by testing and commissioning a prototype of Black Sea shore monitoring station",

### Scope:

1. Black Sea: general description, physico-chemical characteristics;
2. Natural and artificial radioactivity; environmental radioactivity;
3. Interaction of radiation with matter;
4. Methods and means of measurement of nuclear radiation;
5. Effects of irradiation; protection against radiation;
6. Research activity of NIMRD "Grigore Antipa".

### Selected references:

- GD 253/2015 operation status of NIMRD "Grigore Antipa" - Constanța;
- Law 319/2003 on the status of research staff;
- Rules on basic radiological safety requirements / only population and environment (<http://www.cncan.ro/assets/NSR/2018-2/02.07.2018Norme-privind-cerintele-de-baza-de-securitate-radiologica.pdf>)
- Black Sea - Overview; World Diversity, Vol. I, ed. Stoica Preda Godeanu, BUCURA MOND Publishing, Bucharest, 1995 (pp. 1-30/7-16);
- Vespremeanu, E., Oceanography. Vol I, part I. Bucharest University Publishing, 1993;
- Bogdan Stugren, General Ecology Basics. Scientific and Encyclopedic Publishing, Bucharest, 1992 (pp. 50-60);
- C.D. Nenițescu - General Chemistry - Didactical and Pedagogical Publishing, Bucharets, 1979;
- Great Britain CNPR, We live along radiation, Technical Publishing, 1989 (Romanian translation A. Ionescu);
- Tiberiu Nășcuțiu, Radiometric analysis methods, RSR Academy Publishing, 1971;
- R-M. Mărgineanu, Ana-Maria Blebea-Apostu, O-G. Dului, Carmen Varlam, V. Pătrașcu, 2012, Radioactive background in the Black Sea coast, AKADEMOS, issue 1(24), pp. 97-100 ([https://www.researchgate.net/publication/264273662\\_Fondul\\_radioactiv\\_in\\_zona\\_de\\_coasta\\_a\\_Marii\\_Negre](https://www.researchgate.net/publication/264273662_Fondul_radioactiv_in_zona_de_coasta_a_Marii_Negre) or [http://www.akademios.asm.md/files/Academos\\_1\\_2012.pdf](http://www.akademios.asm.md/files/Academos_1_2012.pdf))
- Romanian Radiation Protection Society, Natural Radioactivity in Romania, English-Romanian Version, 172 pages, Bucharest, 1994;
- Romanian Radiation Protection Society, Artificial Radioactivity in Romania, English-Romanian Version, 262 pages, Bucharest, 1995;
- Romanian Radiation Protection Society, Concepts on Radiation Protection, in Romanian, 84 pages, H. Hulubei Publishing, Bucharest, 1996;
- I.I. Ivanov, V.K. Modestov, I.M. Stukkenberg, E.F. Romanțev, E.I. Vorobiev, Radioactive isotopes in medicine and biology. Medical Publishing, Bucharest, 1957;
- <http://www.anpm.ro/radioactivitatea-mediului>.

Drawn-up by,  
Radioecology Laboratory Head,  
Dr. Vasile PATRASCU

