



## **ANNOUNCEMENT**

On May 19, 2025, at 10:00 AM, ICSI Rm. Vâlcea will organize a competition/examination for one position of Scientific Research Assistant in Physics, Occupation Code: COR 211103, consisting of:

- Application file review and interview, which includes a PowerPoint presentation

### **Eligibility Requirements:**

- University graduate in the field of physics, with a bachelor's or equivalent degree from a long-duration higher education program, or with a master's degree in a relevant or related field;
- Must meet the mandatory minimum score required for the ACS position, according to Annex 4a;
- Foreign language: English;
- Communication skills, analytical and synthesis abilities;
- Full legal capacity to exercise civil rights;
- Age limit according to legal provisions;
- Good health status, certified by a medical certificate issued by the family doctor or authorized medical units;
- Employment of individuals under legal interdiction is prohibited

### **Type of Contract:**

Fixed-term individual employment contract – 6 months, with the possibility of extension for the duration of the project Romanian Hydrogen and New Energy Technologies Hub – Ro-HydroHub, negotiable salary, as per applicable collective agreement, minimum 5,000 RON net/month (approximately 1,000 EUR).

### **The competition/exam application file must include:**

1. Standard application form (Annex 1), accompanied by a declaration of responsibility attesting to the accuracy of the information provided (Annex 2);
2. Copies of the bachelor's degree or equivalent (with transcript), and the master's degree in the relevant field or related domains (if applicable). If the selected candidate does not have a degree issued by a Romanian university, a recognition or equivalency certificate must be submitted before appointment and signing the contract;
3. Checklist verifying the fulfillment of minimum and, if applicable, additional standards, completed and signed by the candidate (Annex 4);
4. Proposal for scientific career development related to research activities (max. 5 pages);
5. Signed CV including:
  - Education and obtained diplomas;
  - Professional experience and previous relevant jobs;
  - RDI projects led as project director and obtained grants (mentioning source of funding, budget, and main resulting publications);
  - Awards or other recognitions of scientific contribution;
  - Narrative description of the top 3 relevant achievements related to the competition/exam field – max. 3 pages.

6. List of selected publications, works, articles/studies, patents, as applicable, based on relevance to the candidate's scientific activity;
7. Copy of ID card or other identification document, and copy of marriage certificate (if applicable) or name change proof;
8. Medical certificate attesting the candidate's fitness for the job, issued by their family doctor or an authorized medical facility, dated no more than 3 months prior to the competition;
9. Signed GDPR consent declaration (Annex 3);
10. Criminal record certificate (issued no more than 6 months before the hiring date);
11. Other documents required by current legislation or regulations;
12. The competition file must include the list of scientific publications, works, articles/studies considered relevant for the field of the position. The list must be structured as follows:
  - Top 10 most relevant scientific publications (authored books, articles/studies/chapters, edited volumes);
  - List of authored books and edited/published volumes;
  - List of full-length articles/studies published in leading international journals;
  - List of other works and scientific contributions.
13. Online-available publications must be referenced with a functional web link;
14. Publications not available online must be submitted as scanned copies and/or in PDF format;
15. References from previous employers (upon ICSI request).

#### **Competition Topics:**

1. Numerical methods in physical processes
2. Application of artificial intelligence in hydrogen energy – presentation from a personal perspective (PowerPoint format).  
*The presentation will be delivered orally during the competition, and the candidate must include a solution to the assigned topic.*

#### **Instructions for candidates:**

- The presentation must be prepared in PowerPoint format (maximum 20 minutes). The interview and presentation will last approximately 30 minutes in total.
- The exact presentation time will be communicated based on the number of registered candidates.

#### **Bibliography**

1. Fuel Cell Handbook (Seventh Edition), 2004, By EG&G Technical Services, Inc., U.S. Department of Energy Office of Fossil Energy National Energy Technology Laboratory <https://www.netl.doe.gov/sites/default/files/netl-file/FCHandbook7.pdf>.
2. Mathematical Methods using Python Applications in Physics and Engineering by Vasilis Pagonis and Christopher W. Kulp, 1<sup>st</sup> Edition, 2024, Boca Raton, eBook ISBN: 9781003294320 <https://doi.org/10.1201/9781003294320>

*Application deadline: May 16, 2025, at 3:00 PM*  
*Files must be submitted to the Secretariat Office or via email to [office@icsi.ro](mailto:office@icsi.ro)*  
*For more information, contact the Human Resources Department*

**PRESIDENT OF THE EMPLOYMENT AND PROMOTION COMMITTEE**  
**dr. eng. Roxana Elena Ionete**