



ANNOUNCEMENT

On May 20, 2025, at 10:00 AM, ICSI Rm. Vâlcea will organize a competition/examination for the filling of two (2) positions of Scientific Research Assistant in Chemistry, Occupation Code: COR 211307, consisting of:

- File evaluation and interview

Eligibility Requirements:

- University graduate in the field of chemistry, 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;
- Experience in electrochemical processes and/or nanomaterials development for electrochemical devices: minimum 1 year;
- 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. Methods for the preparation of nanostructured catalytic materials;
2. Electrochemical methods for catalyst evaluation;
3. Characterization methods of nanostructured catalytic materials

Bibliography

1. Introduction to electrochemistry, D. Brynn Hibbert, University of New South Wales, Australia, ISBN 978-0-333-56303-8 - available online.
2. Physical Chemistry, Atkins, published by Freeman/Oxford Press 2006 - available online.
3. N. Baig, I. Kammakam, W. Falath (2021) “Nanomaterials: a review of synthesis methods, properties, recent progress, and challenges”, Materials advances, 2, 1821, DOI: 10.1039/d0ma00807a - available online.
4. B. Mekuye, B. Abera (2023) “Nanomaterials: An overview of synthesis, classification, characterization, and applications”, Nano Select, 4, 486, DOI: 10.1002/nano.202300038 - available online.
5. 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>.
6. V. S. Bagotsky. Fundamentals of Electrochemistry Second Edition, ISBN-13 978-0-471-70058, https://www.thevespiary.org/library/Files_Uploaded_by_Users/Enkidu/Chemistry/Fundamentals_of_Electrochemistry_BAGOTSKY.pdf.
7. Joseph Wang, Analytical Electrochemistry, Second Edition, https://www.smbstcollege.com/uploads/department/Analytical_electrochemistry_2ed_-_Wang.pdf.

Application deadline: May 16, 2025; at 3:00 PM

Files must be submitted to the Secretariat Office or via email to office@icsi.ro

For more information, contact the Human Resources Department

PRESIDENT OF THE EMPLOYMENT AND PROMOTION COMMITTEE

dr. eng. Roxana Elena Ionete