ACADEMIA ROMÂNĂ
INSTITUTUL DE CHIMIE MACROMOLECULARĂ "PETRU PONI"
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JOB ANNOUNCEMENT

The "Petru Poni" Institute of Macromolecular Chemistry (ICMPP), Iași, Romania, announces an open competition for the position of **Research Assistant** within the ERA Chair project: **"BIOMAT4CAST – Petru Poni Institute of Macromolecular Chemistry Multi Scale in Silico Laboratory for Complex and Smart Biomaterial"**, acronym: **BioMat4CAST**, project code **101086667**, call **HORIZON-WIDERA-2022-TALENTS-01-01**.

Position: Research Assistant
Number of available positions: 1
Type of contract: Part-time fixed-term individual employment contract
Working hours: 4 hours/day
Start date: October 1, 2025
Contract duration: 14 months (project-based funding)
Location: IntelCentre Laboratory, ICMPP Iași
Selection procedure: File evaluation, written test (written essay), and interview
Competition venue: "Petru Poni" Institute of Macromolecular Chemistry (ICMPP), Aleea Grigore Ghica Vodă 41A, 700487 Iași, Romania and on-line

Competition Timeline:

- **Announcement date:** July 3, 2025
- **Application deadline:** August 4, 2025, 14:00 (local time), either at ICMPP headquarters or via e-mail at: contact_biomat4cast@icmpp.ro
- **Results of application file evaluation:** August 7, 2025, 14:00
- **Appeals regarding file evaluation:** August 8, 2025, 14:00
- **Final file evaluation results publication:** August 8, 2025, 16:00
- **Written test results:** August 12, 2025, 14:00
- **Deadline for appeals (written test):** August 12, 2025, 14:00
- **Final written test results publication:** August 12, 2025, 16:00
- **Interview date:** August 18, 2025, 10:00
- **Interview results publication:** August 18, 2025, 14:00
- **Deadline for appeals (interview):** August 19, 2025, 14:00
- **Final interview results publication:** August 20, 2025, 16:00
- **Final competition results:** August 21, 2025, 14:00

General Requirements for Applicants:

- Must be medically fit to carry out the activities required;
- English language proficiency;
- Must meet the specific eligibility criteria of the advertised position.

Specific Requirements:
- Bachelor's degree in Chemistry, Biochemistry, Physics or related fields and a Master's degree in one of the same fields: Solid knowledge of Chemistry or Physics;
- Knowledge of parallel computing, quantum chemistry, classical/quantum mechanics, or statistical physics is an advantage;
- The candidate must be willing to enroll in a PhD program in Computational Chemistry;
- Willingness to travel domestically and internationally;
- Motivated and creative, with strong communication and teamwork skills;
- English proficiency is mandatory.

Note: This position is open to all applicants regardless of gender, religion, race, or sexual orientation. The project team strictly opposes any form of discrimination.

Application File Requirements (according to Romanian Law 319/2003, Art. 15, para. 6):
- Application letter addressed to ICMPP management, requesting registration for the competition;
- Copy of identity card and supporting documents for name change (if applicable);
- Copies of academic documents: Bachelor's and Master's degrees and transcripts;
- Extract from the General Registry of Employees (if relevant, for proving work experience);
- CV in English tailored to the job requirements;
- List of scientific contributions (with supporting documents, if applicable), in English;
- Motivation letter in English (free format), explaining the candidate's interest in the position;
- A written essay (max. 3 pages, in English) presenting the candidate's personal development plan based on their academic background (Bachelor's and Master's) and how this fits into a PhD trajectory in Computational Chemistry.

Selection Procedure:
1. **Application file evaluation:**
   Candidates' documents will be reviewed for eligibility by the selection committee. Missing documents or failure to meet the mandatory requirements will result in disqualification. Evaluation outcome: Admitted/Rejected.
2. **Written test:**
   Conducted online. Evaluation of the candidate's submitted essay. The essay shall consist of a single document, PDF format, maximum 2000 words, in which the candidate presents the work experience and studies background that are directly relevant to the doctoral position. Each committee member will score independently on a 1–10 scale.'
3. **Interview:**
   Conducted online. Each committee member will score independently on a 1–10 scale.

Final score: Arithmetic mean of scores given by committee members.
Candidate ranking: Based on the final average score.

Job Responsibilities:
Scientific Research Activities:
- Multiscale in silico design and study of non-viral gene therapy vectors: structure, interactions with polymeric sequences and target genetic molecules (DNA/RNA), or polyplex–membrane interactions;
- Synthesis of systems modeled in silico and validation via physicochemical characterization methods to test input–output hypotheses related to computational chemistry;
- Assessment of potential applications and development of new investigative tools.

Dissemination Activities:
- Publication of scientific results in ISI-indexed journals and presentations at national/international conferences;

- Contribution to research reporting and documentation.

Sustainability-Oriented Activities:
- Participation in training programs on fundraising and research project management;
- Searching for and applying to funding calls to support individual and group research activities.

Support Activities:
- Organization of the workspace to ensure functionality and research workflow;
- Management of consumables and reagents for optimal research conditions.

The selected candidate will be required to maintain confidentiality on all research topics they are involved in.

Further information:
Human Resources Office – "Petru Poni" Institute of Macromolecular Chemistry,
Phone: +40 332 880 220 ext. 209
E-mail: contact_biomat4cast@icmpp.ro

This announcement was published on the Institute's website – "Competitions" section – by the Secretary of the Competition Committee on *03 July, 2025*.