



ROMANIAN ACADEMY
“PETRU PONI” INSTITUTE OF MACROMOLECULAR CHEMISTRY
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COMPETITION ANNOUNCEMENT

As the Beneficiary, the “Petru Poni” Institute of Macromolecular Chemistry Iași, organizes the competition to hire within the funding contract no. 36TE/08.01.2025, “*Phenoxazine-based polyamides for hybrid prototype devices with near infrared electrochromism and energy storage capability*” (NIReCSD, code: PN-IV-P2-2.1-TE-2023-0213), a vacant position, as follows:

Position: Research Assistant (member - PhD student)

Number of positions open to competition: 1

Type of employment contract: Individual part-time employment contract

Estimated contract start date: 01.03.2026

Employment period: temporary, until 31.12.2026, with funding from *Phenoxazine-based polyamides for hybrid prototype devices with near infrared electrochromism and energy storage capability*” (NIReCSD, code: PN-IV-P2-2.1-TE-2023-0213) project, funding contract no. 36TE/08.01.2025

The place of the research activity: Electroactive Polymers and Plasmochemistry Laboratory within the “Petru Poni” Institute of Macromolecular Chemistry

Place of the competition: “Petru Poni” Institute of Macromolecular Chemistry (ICMPP), 41A Grigore Ghica Voda Alley, 700487 Iași

Job description: *Synthesis and physicochemical characterization of triarylamine-based derivatives/polymers for use in electrochromic energy-storage devices.*

General requirements for candidates:

- have Romanian citizenship, citizenship of other European Union member states or states belonging to the European Economic Area and domiciled in Romania;
- know Romanian/English, written and spoken;
- have full capacity to work;
- have a state of health appropriate to the position for which he/she is applying;
- have not been definitively convicted of committing a crime against humanity, against the state or against authority, of duty or in connection with duty, which impedes the course of justice, of forgery or of acts of corruption or of a crime committed intentionally, which makes him/her incompatible with the duties of the position, except in the case where rehabilitation has occurred.

Specific requirements for the Research Assistant (Member – PhD student):

- The candidate must possess a bachelor's degree in Chemistry and must be enrolled as PhD student in Chemistry;
- The candidate must be available for part-time employment for a fixed period;
- The candidate must be fluent in English - written and spoken;
- The candidate must be familiar with the synthesis techniques of organic compounds;
- The candidate must have knowledge of the structural characterization techniques (IR, NMR) of organic compounds;
- The candidate must have knowledge of electrochemical characterization techniques (cyclic voltammetry, differential pulse voltammetry);
- Practical computer operating knowledge (Word, Excel, Power Point, Origin) is mandatory;

- The candidate must be motivated and creative, with advanced communication and teamwork skills.

Selection procedure:

1. **Analysis of the candidate's file** (eliminary step): Lack of a requested document or failure to fulfill a mandatory requirement entails elimination from the competition. The results of the selection of competition files are displayed on the ICMPP website with the mention „admitted” or „rejected”;
2. **Written test** (eliminary): The written test will take place at the ICMPP headquarters and will consist of a written exam with subjects according to the examination topics displayed on the website. Only candidates who have submitted all the necessary documents to register for the competition and meet the conditions for participation are accepted to participate in the written test. To be declared admitted, candidates must obtain a minimum grade of 8 (eight) in the written test. The results of the written test are displayed on the ICMPP website with the mention „admitted” or „rejected”;
3. **Oral examination**: The oral examination will take place at the ICMPP headquarters and will consist of the presentation of the scientific activity of the candidates. To be declared admitted, candidates must obtain a minimum grade of 8 (eight) in the oral test. The results of the oral examination are displayed on the ICMPP website with the mention „admitted” or „rejected”.

The result of the competition tests is appreciated by each member of the commission with grades from 1 to 10; the grade of the test represents the arithmetic average of the grades given by the committee members.

The final mark of the candidates is calculated as follows: final grade = written exam grade \times 0.7 + oral exam grade \times 0.3

The ranking of candidates will be done according to the final average.

Examination topics:

1. Nitrogen-containing heterocyclic compounds
2. General knowledge about macromolecular chemistry
3. Polycondensation
4. General knowledge about physicochemical characterization of organic compounds
5. Applications of triarylamine-based derivatives/polymers

Bibliography:

1. C. Simionescu, C. Vasiliu Oprea, V. Bulacovschi, B. Simionescu, C. Neguleanu, *Chimie macromoleculara*, Ed. Didactica si Pedagogica, Bucuresti, 1985;
2. V. Şunel, *Chimie Organică. Compuşi heterociclici. Producşi naturali*, ed. Universităţii “Al. I. Cuza” Iaşi, 1995;
3. Mangalagiu, I. : *Probleme de chimie organică*, Ed. Dosofoei, IASI, 2000;
4. Gh. Nemţoi, *Electrochimie. Aspecte fundamentale*, Editura Tehnopress, Iaşi, 2011;
5. I.G. Murgulescu, O.M. Radovici, *Introducere în chimie fizică*, vol.IV, *Electrochimie*, Editura Academiei Române, Bucureşti, 1986;

Competition timetable:

Competition publication date: 14.01.2026

Deadline for file submission: 16.02.2026, at 12.00 at the ICMPP headquarters or online at: constantin.catalin@icmpp.ro

Publication of the results of the files analysis: 17.02.2026, at 12.00

Deadline for appeals of the results of the files analysis: 18.02.2026, at 12.00

Publication of the final results of the file analysis: 18.02.2026, at 16.00

Written test date: 19.02.2026, at 10.00

Date of publication of the results of the written test: 19.02.2026, at 14.00

Deadline for appeals of the results of the written test: 20.02.2026, at 14.00

Date of publication of the results of the written test: 20.02.2026, at 16.00

Oral examination: 23.02.2026, at 11.00

Date of publication of the results of the oral examination: 23.02.2026, at 14.00

Deadline for appeals of the results of the oral examination: 24.02.2026, at 14.00

Publication of the final results of the oral examination: 24.02.2026, at 16.00

Publication of the final results of the competition on the institute website: 25.02.2026, at 10.00

The enrolment file must contain:

- The candidate must submit a formal request addressed to the ICMPP management by which he requests the registration in the competition for filling the vacant position, dated and signed by the candidate, approved by the director of the institute and registered within the legal registration deadline
- Copy of identity document and copies of documents certifying the change of name, if applicable;
- Copies of the documents certifying the candidate's studies: bachelor's and/or master's degree accompanied by the transcript (academic reports or diploma supplement);
- Diplomas obtained in other states must be recognized by the National Council for Attestation of University Titles, Diplomas and Certificates (CNATDCU);
- Certificate attesting the status of PhD student enrolled in Chemistry field
- Curriculum vitae adapted to employment requirements;
- Cover letter (free format) in which to indicate the research areas of interest and the motivation for applying for the position;
- Medical certificate in original, attesting clearly the state of health, the number, date, name of the issuer and its quality, in the standard format established by the Ministry of Health;
- Criminal record or declaration on his own responsibility that he/she has no criminal convictions that would make him/her incompatible with the position for which he/she is applying, with the completion of the competition file (up to the date of the first competition test) with the original criminal record.

The candidate undertakes to maintain the confidentiality of the research topics in which he/she participates.

Details regarding the specific conditions can be read on the website <https://icmpp.ro>, <<Vacancies>> Section, <https://www.euraxess.gov.ro/ro>, <https://jobs.research.gov.ro/>, or additional information can be obtained at the **Human Resources Office at the headquarters** of “Petru Poni” **Institute of Macromolecular Chemistry (ICMPP)** from Iasi, telephone 0332 880 220, and at the e-mail address: constantin.catalin@icmpp.ro

This announcement was published on the Institute’s website - <<Vacancies>> Section, by the Secretary of the competition commission on 14.01.2026