

FORM FOR EMPLOYERS

INSTITUTION: Institute of Organic Chemistry of the Polish Academy of Sciences

CITY: Warsaw

POSITION: Research Assistant – Post-doc

DISCIPLINE: Chemistry

POSTED: 27.02.2026

EXPIRES: 20.03.2026

WEBSITE: <https://www.icho.edu.pl/en/>

KEY WORDS: *dyes, synthesis, absorption, fluorescence*

Project/Grant title: "Center for Quantum Digital Organic Memristors"

FENG.02.01-IP.05.-M005/25

The „Center for Quantum Digital Organic Memristors” project is carried out within the International Research Agendas (MAB FENG) programme of the Foundation for Polish Science co-financed by the European Union under the European Funds for Smart Economy 2021-2027 (FENG).

Number of positions available: 1

Researcher profile: R2

Job description:

The Center for Quantum Digital Organic Memristors (CKCOM) project focuses on the development of a new generation of molecular memory and logic elements based on proton quantum tunneling. The aim is to advance energy-efficient memcomputing technologies that integrate information processing and storage within single molecular systems, with potential applications in nanoelectronics and AI systems.

The project focuses on memristors based on aromatic aminoacids. The tasks will include: synthesis of intermediates and target functional dyes, purification of products, complete chemical, spectral, and photophysical characterization of the obtained products, collaboration with MSc and PhD students, writing reports and publications.

- **Envisaged job starting date: 15.04.2026**



Republic
of Poland

Co-funded by the
European Union



Foundation for
Polish Science

Offer:

Terms of employment: Full-time employment for 12 months, with the possibility of extension; a monthly salary of approximately PLN 11,800 gross (depending on professional experience), corresponding to the level of remuneration offered for comparable positions at the Institute of Organic Chemistry PAS in projects funded from external sources.

Benefits: *private medical care package; co-financing of sports cards*

Career development opportunities: *Work in an experienced, dynamically developing research team; access to advanced research infrastructure; opportunities for collaboration with international research centres; and prospects for further professional development at the Institute of Organic Chemistry PAS.*

Requirements:

PhD degree obtained no earlier than 2020 (this period may be extended by documented career breaks, including parental leave – by 1 year for each child).

required competencies

- PhD in organic chemistry
- Very good knowledge of organic chemistry
- Good command of English, both spoken and written
- Previous laboratory experience in organic synthesis
- Experience in photophysics

desirable competencies

- Experience in heterocyclic chemistry

Candidate evaluation criteria:

- knowledge of organic chemistry
- scientific achievements measured by the quality and number of scientific publications and/or granted or filed patents
- the Candidate's professional experience
- creativity and independence in conducting scientific research
- career mobility (scientific internships, changes in research profile)
- ability to work in a team and to share knowledge
- awards and distinctions received
- references provided in letters of recommendation
- language proficiency sufficient for scientific work

List of required documents:

- Candidate's CV
- description of scientific achievements, including a list of publications, research projects, etc.
- diplomas and certificates confirming academic degrees, qualifications, completed courses and trainings
- cover letter
- letters of recommendation and references from previous employers and/or academic supervisors

Along with the required documents, please send a scan of a signed consent to the processing of personal data available at: <https://www.icho.edu.pl/en/cooperations/career/>

Competition settlement date: 02.04.2026

Additional information:

Research group leader: dr hab. Cina Foroutan-Nejad

Phone: 22 3432000

e-mail: cina.foroutan-nejad@icho.edu.pl

Secretariat

Institute of Organic Chemistry of the Polish Academy of Sciences

Kasprzaka 44/52 Street

01-224 Warsaw

Phone: +48 22 631 8788

Applications must be sent to e-mail address: rekrutacja@icho.edu.pl

ATTENTION! In the title of the e-mail, please enter “Recruitment – Cina Foroutan-Nejad - MAB - Synthesis”

We are an open and inclusive employer – we encourage applications from all individuals, regardless of gender, origin, nationality, or minority background.

