

FORM FOR EMPLOYERS

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

CITY: Warsaw

POSITION: Post-doctoral fellow (assistant)

DISCIPLINE: Chemistry

POSTED: 20.04.2026

EXPIRES: 15.05.2026

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

KEY WORDS: *dyes, synthesis, absorption, , π -systems, organic electronics*

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: 01.06.2026



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 (*no longer than until 31 December 2029*); a monthly salary of approximately PLN 11,800 gross, 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 a young, dynamically developing team, access to advanced research infrastructure, possibility of cooperation with foreign research centers, possibility of further professional development at IChO PAS, participation in international conferences.*

Requirements:

PhD degree in awarded no more than five years before the application date*¹ in chemistry or a submitted doctoral dissertation along with a certificate confirming the scheduled defense date.

required competencies

- PhD in chemistry
- Strong background in organic chemistry
- Proven experience in synthetic organic chemistry (hands-on laboratory work)
- Proficiency in English
- Experience with structural characterization of organic compounds using NMR, MS, UV-Vis, and IR spectroscopy

desirable competencies

- Experience in the chemistry of polycyclic aromatic compounds and/or functional dyes
- Background in photophysics
- Ability to work independently and as part of a research team
- Experience in mentoring students

¹ * *The five years is calculated from the year in which the doctoral degree was awarded. The beginning of this period is determined by the calendar year of obtaining the degree, and the end by the year preceding the deadline for submitting applications in the competition. The five-year limit may be extended by any documented interruptions in research activity that occurred after the award of the doctoral degree, provided that each interruption lasted no less than six months. Documented interruptions in research activity include, among others, unpaid leaves, parental leaves, breaks caused by long-term illness, employment in the R&D sector without involvement in scientific research, or employment in other sectors of the economy. For women who have given birth to a child or for individuals who have adopted a child, the five years shall be extended by one year per child, regardless of the date of birth or adoption, even if the documented leave or break related to this event was shorter.*

Candidate evaluation criteria:

- knowledge of organic chemistry
- scientific achievements measured by the quality and quantity of scientific publications or granted/pending patents
- 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: 29.05.2026

Additional information:

Research team leader: Dr Marek Grzybowski

Phone: 22 3432035

e-mail: marek.grzybowski@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 reference number "CKCOM/2026/MD/7".

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

