

## FORM FOR EMPLOYERS

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

CITY: Warsaw

POSITION: Post-doc

DISCIPLINE: Theoretical and Computational Chemistry

POSTED: 27.02.2026

EXPIRES: 20.03.2026

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

KEY WORDS: *Density Functional Theory, Nonequilibrium Green's Function, Molecular Modelling*

### **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/R3**

#### **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.

Research carried out in the group of Prof. Daniel Gryko focuses on memristors based on aromatic amino acids. The successful candidate will be responsible for multiscale computational modeling and the design of functional materials for organic electronics. The scope of duties will also include collaboration with students and PhD candidates, preparation



Republic  
of Poland

Co-funded by the  
European Union



Foundation for  
Polish Science

of scientific reports and publications, and active participation in the implementation of the project's research tasks.

- **Envisaged job starting date:** 15.04.2026

#### **Offer:**

**Terms of employment:** Full-time employment for 24 months, with the possibility of extension; a monthly salary of approximately PLN 12,900 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:**

**A PhD degree obtained no later than 2021, demonstrating at least five years of experience in conducting research and development work after obtaining the doctoral degree.**

#### **required competencies**

- PhD in chemistry, physics or a related field
- Very good knowledge of computational and theoretical chemistry
- Knowledge of the English language in speech and writing
- Previous work in the field of computational chemistry

#### **desirable competencies**

- Familiar with modeling molecules in electric fields and/or NEGF computations

#### **Candidate evaluation criteria:**

- 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:**

Principal Investigator of the Project: Prof. Daniel Gryko

E-mail: [daniel.gryko@icho.edu.pl](mailto:daniel.gryko@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](mailto:rekrutacja@icho.edu.pl)

**ATTENTION! In the title of the e-mail, please enter “Recruitment – Daniel Gryko – MAB – Adjunct”**

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

