

FORM FOR EMPLOYERS

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

CITY: Warsaw

POSITION: Post-doc

DISCIPLINE: Chemistry

POSTED: 21.07.2026

EXPIRES: 15.08.2026

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

KEY WORDS: *luminescent dyes, organoboron compounds, organic synthesis, fluorescence, optoelectronics.*

Project title: "Red and Near-Infrared Boron-Containing TADF Emitters for Advanced Optoelectronic and Bioimaging Applications"

Number of positions available: 1

Researcher profile: R2/R3

Job description:

Description of tasks: Design, synthesis, characterization, and investigation of the photophysical properties of organic boron-containing compounds exhibiting TADF (thermally activated delayed fluorescence) activity. Collaboration with computational and device-focused researchers to assess material suitability for optoelectronic devices. The work will be conducted in close collaboration with other PhD students, postdoctoral researchers, and other co-investigators from the Institute of Organic Chemistry of the Polish Academy of Sciences (IOC PAS) as well as cooperating Polish and international institutions.

Envisaged job starting date: 01.09.2026

Offer

Terms of employment: full-time employment for 24 months with the possibility of extension to 60 months, with salary funded by the NCN grant, 11666,66 PLN (gross gross) ~9700 PLN gross;

The salary level is in line with the compensation guidelines for comparable postdoctoral positions in projects funded by the National Science Centre.

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

Career development opportunities: *Work in a dynamically developing team, access to research infrastructure of IOC PAS, professional development in the field of organic and medicinal chemistry, the possibility of cooperation with foreign research centres, the possibility of further professional development at the IOC PAS.*

Requirements

PhD diploma in chemistry or materials science, awarded no earlier than 12 years before employment in the project (this period is extended by the duration of maternity/paternity leaves), or expected date of obtaining the PhD degree prior to commencement of work.

required competences

- Good knowledge of organic chemistry (preferentially organoboron compounds), photophysical characterization, and device integration;
- Good skills in NMR and fluorescence spectroscopies, quantum yield measurements, and molecular modelling.
- Ability to analyse and interpret experimental data.
- Scientific achievements documented by publications in recognized journals.
- Knowledge of spoken and written English to the extent necessary for independent scientific work.
- Ability to solve scientific problems.
- Ability to work both independently and as part of a team.
- Experience in mentoring junior researchers.
- Strong motivation and commitment to scientific research.

desirable competences

- Knowledge of computational methods.

Candidate evaluation criteria

- scientific achievements measured by the quality and quantity of scientific publications or granted/pending patents;
- Candidate's professional experience;
- creativity and independence in conducting research;
- career mobility (research internships, work in industry, change of scientific profile);
- ability to work in a team;
- awards or distinctions;
- opinions about the Candidate contained in the letters of recommendation;
- language knowledge enabling conducting scientific research.

List of required documents:

- Candidate's *Curriculum Vitae*
- description of scientific achievements, including a list of publications, ongoing projects, etc.
- diplomas and certificates confirming qualifications, completed courses, completed training, etc.
- cover letter
- contact details for at least two persons who can provide references
- consent to the processing of the Candidate's personal data for the purposes of the competition

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

Competition settlement date: 22.08.2026

Additional information

Project manager: Mykhaylo Potopnyk, DSc

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Secretariat

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

ATTENTION! In the title of the e-mail, please enter "Recruitment – Mykhaylo Potopnyk"

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

