FORM FOR EMPLOYERS

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

CITY: Warsaw

POSITION: Post-doc

DISCIPLINE: Chemistry

POSTED: 19.11.2026

EXPIRES: 03.12.2026

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

KEY WORDS: *dyes, synthesis, fluorescence, π-systems*

Project/Grant title: "Bridging-Unit Control of Xanthene Photophysics: From Aromaticity Theory and Data-Driven Modelling to the Synthesis of Next-Generation Fluorophores"

Number of positions available: 1

Researcher profile: R2

Job description:

The project concerns the synthesis and characterization of xanthene-based fluorescent dyes and their structural analogues. The research will focus on preparing compounds with different bridging units and substituents to investigate the relationships between molecular structure and optical properties. The experimental results will be analyzed in relation to quantum-chemical calculations and machine-learning models developed within the project. The work will also involve routine optimization of synthetic procedures, preparation of compound libraries, and systematic collection and analysis of experimental data.

Description of tasks:

- Synthesis of intermediates and target functional molecules,
- 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: 01.01.2027

Offer:

Terms of employment: Full-time position, temporary contract for 32 months with the possibility of extension. The gross monthly salary (including employer's costs) is 14 000 PLN (approx. 11 600 PLN gross).

The offered remuneration is in line with salaries for comparable positions in projects funded by the Polish National Science Centre (NCN).

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

Career development opportunities: work in a 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 organic chemistry, awarded no earlier than January 1, 2015.

required competencies

- 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.

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 research,
- Ability to work in a team/ability to transfer knowledge/managerial predispositions,
- 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, 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,
- Consent to the processing of the Candidate's personal data for the purposes of the competition.

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: 15.12.2026

Additional information:
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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 – Marek Grzybowski – OPUS "

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

