

FORM FOR EMPLOYERS

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

CITY: Warsaw

POSITION: Post-doc

DISCIPLINE: Chemistry

POSTED: 01.09.2026

EXPIRES: 20.09.2026

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

KEY WORDS: *stereoselective dearomatisation, retro-ene reaction, stereodivergent synthesis, late-stage functionalization, remote derivatization, chiral poly- and spirocyclic compounds*

Project title: "Stereoselective dearomatization of nonactivated arenes via an „alkene walk” pathway: Rapid access to high-added value poly- and spirocyclic systems from readily available aromatic compounds".

Number of positions available: 1

Researcher profile: R2

Job description:

The aim of this research proposal is to establish a new methodology for the stereoselective dearomatization of nonactivated arenes via the virtually unexplored retro-ene reaction of in situ generated benzylic diazenes (a so called “alkene walk” process), and subsequent transformation of the so formed active polyene species into chiral poly- and spirocyclic molecules. As a result, a new and versatile tool for the synthesis of high-value organic molecules from cheap and readily available benzylic alcohols, halides, aldehydes (in combination with organometallics) and monosilyl diazenes will be added to the organic chemist’s toolbox. Moreover, the possibility of synthesis of advanced polyaromatic systems via an additional re-aromatization process will be tested.

The candidate will be responsible for synthesizing of the starting materials and polyene intermediates, followed by an studies on their selective of transformations into variety of poly- and spirocyclic systems using selected literature protocols. The candidate will also be responsible for recording and interpreting spectral data, designing experiments, and preparing reports and materials for publications. Complementary theoretical studies on reaction

mechanisms may be performed by the candidate or as part of a collaboration, depending on the scholar's interests.

Envisaged job starting date: 01.01.2027

Offer:

Terms of employment: Full-time position, temporary contract for 12 months with the possibility of extension. The gross monthly salary (including employer's costs) is 11,666.67 PLN (approx. 9,500 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: *W access to modern research infrastructure, professional development in the field of advanced organic synthesis, the possibility of further professional development at the IOC PAS*

Requirements:

PhD degree in chemistry (specialization: organic chemistry), awarded no earlier than 7 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 competencies

- high level of experience in multi-step organic synthesis;
- high level of experience in analytic and spectroscopic techniques;
- high level of experience in general chemical software, and chemical databases;
- excellent general knowledge of organic chemistry;
- communicate well in English in writing and speaking;

desirable competencies

- expertise in computational chemistry methods;
- creativity, responsibility, independence, as well ability to work in team;
- ability to guide and train younger co-workers (students, PhD students)

Candidate evaluation criteria:

- scientific achievements measured by the quality and quantity of scientific publications or granted/pending patents
- Candidate's professional experience in organic synthesis
- career mobility (research internships, work in industry, change of scientific profile)
- 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. *(remove if not applicable)*
- diplomas and certificates confirming qualifications, completed courses, completed training, etc. *(remove if not applicable)*
- cover letter *(remove if not applicable)*
- 2 letters of recommendation and references from previous employers/supervisors *(remove if not applicable)*
- 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: 11.10.2026

Additional information:

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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 reference number "Recruitment – Bartosz Zambron".

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

