



# ANNOUNCEMENT

RECTOR OF THE SILESIAAN UNIVERISTY OF TECHNOLOGY in Gliwice, Akademicka 2A St.  
announces the competition for the postdoctoral position  
in the field of Organic Electronic Materials and Devices  
in the rank of Assistant Professor or Assistant Researcher

in the Department of Physical Chemistry and Polymer Technology at the Faculty of Chemistry

## Job Description:

We seek for outstanding and enthusiastic researchers with strong expertise in one (or more) areas of the broadly defined field of organic electronics, including synthesis and characterization of organic/organometallic small molecules and conjugated polymers for electronic applications, characterization and physical chemical studies of  $\pi$ -functional materials, device fabrication and tests of new materials. The successful candidate should have proven record of high quality research and achievements, and will be a part of interdisciplinary research team on development of organic electronic materials and devices and creating the multidisciplinary Centre of Excellence (CoE) in Organic Electronics. The successful candidates will work in the group of Prof. Igor Perepichka on the Horizon2020 European project „ExCEED” toward organic molecular and polymer semiconductors for organic light-emitting devices (OLEDs), organic field-effect transistors (OFETs), organic photovoltaics (OPVs), organic energy storage systems, electrochromics, and related applications.

## Terms and Conditions of Employment:

- 1) Person, who meet the requirements specified in the Act of 20 July 2018 on Higher Education and Science (Journal of Laws of 2018, item 1668, as amended) and the Statute of the Silesian University of Technology of 3 June, 2019 (Legal Monitor of SUT of 2020, item 339) may enter the competition for the position of assistant professor.
- 2) Estimated work commencement date: immediately.
- 3) Workplace: Faculty of Chemistry, group of Prof. Igor F. Perepichka.
- 4) Contract type: fixed term, full-time job, 18+ months (subject successful initial 6-months probation period).
- 5) Rank of an employment: Assistant Professor or Assistant Researcher, depending on qualification.
- 6) Remuneration: up to total € 4,200 per month (including gross salary, employer's contributions to healthcare, pension, etc.).

## Main Tasks and Key Responsibilities:

- 1) Design and synthesis of organic electroactive and photoactive  $\pi$ -functional molecules and conjugated polymers.

- 2) Their characterization using the basic set of instrumental techniques (NMR, MS, FTIR, ESR, UV-Vis, photoluminescence, electrochemistry, Raman spectroscopy, XRD, DSC/TGA, electron microscopy, etc).
- 3) Characterization and studies of  $\pi$ -functional organic semiconductive materials toward their electronic/optoelectronic applications.
- 4) Device prototype design, fabrication and tests using novel organic electronic materials.
- 5) Participate actively in other research and development activities on design of new electronic materials.
- 6) Writing original research articles and reviews for publication, with a focus on publishing research results in leading journals in the field. Preparation of patent applications.
- 7) Involvement in grant proposal preparation and reports.
- 8) Develop project plan and execute scientific programmes in a timely manner.
- 9) Reporting the progress of research to Prof. Igor F. Perepichka and to the management team of the "ExCEED" project.
- 10) To be involved in mentoring and training PhD students in the group.
- 11) Provide guidance, mentor and training to working team and regular review of needs to ensure proficiency of the team.
- 12) Assist in organizing other academic activities for the project (e.g., academic speeches, conferences, meetings, publicity etc);
- 13) Other academic and managing tasks assigned by the PI.

#### **Qualifications & Prerequisites:**

- 1) PhD degree in Chemistry, Materials or Physics / Engineering, or an equivalent level of professional qualification and experience are essential.
- 2) Candidates should have confirmed research experience and strong background in one or more of the following: (a) organic synthesis of  $\pi$ -functional materials and methods of their isolation / characterisation (chromatography, NMR, MS, FTIR, UV-Vis, HPLC etc); (b) polymer chemistry, materials chemistry, electron absorption/fluorescence spectroscopy, electrochemistry, ESR, XRD and other physical methods of characterisation and studies of organic  $\pi$ -functional molecules and polymers; (c) studies of organic electronic/optoelectronic materials and/or devices.
- 3) Well versed with a range of physical methods of studies of organic semiconductors; hand-on skills of material characterizations and/or device fabrication.
- 4) Well versed with methods of organic and physical chemistry, materials science.
- 5) Strong publication records relevant to chemistry, materials science or organic electronics.
- 6) Highly motivated researcher with strong interest to pursue research in experimental organic materials chemistry.
- 7) Ability to resolve complex issues and make technical, and procedural decisions and judgments
- 8) An ability to work independently and as part of a multi-disciplinary team.
- 9) An ability to work under high pressure in a tight-time schedule.
- 10) Good writing skills for scientific articles.
- 11) Good interpersonal / communication skills and high level of English proficiency (both spoken and written).
- 12) Adhere to high ethical standards
- 13) Not employed by Silesian University of Technology in the last 4 years.

#### **Additional Requirements (Desirable Skills):**

- 1) Previous postdoctoral (post-PhD) research in other Universities or R&D experience in industry is a big plus.
- 2) Skills in DFT and other computational methods in chemistry and/or materials science.

- 3) Research grant writing skills
- 4) Teaching experience and/or skills in supervision / co-supervision of PhD/MSc students or managing junior researchers work.
- 5) Industrial experience or collaboration with industry.
- 6) International experience at universities abroad.

**Benefits:**

- 1) Full-time employment contract with the rank of Assistant Professor or Assistant Researcher position (depending on the qualification) at the Faculty of Chemistry;
- 2) Very favourable financial conditions: internationally competitive salary commensurate with qualification and experience, which is highly competitive compared to salaries in the public and private sectors in Poland.
- 3) Work in the interdisciplinary organic electronics team on the European Horizon2020 project “ExCEED”.
- 4) Work in a friendly and supportive environment that cares about the employee's quality of life.
- 5) **Other benefits provided by the University:** numerous additional pro-quality programs, to encourage the research performance:
  - by PLN 10,000<sup>1</sup> gross per month for 12 months, for each publication in the main series (flagship) of Nature or Science journal,
  - by PLN 3,500<sup>1</sup> gross per month for 12 months, for each publication in a journal from the TOP1 list,
  - by PLN 2 000<sup>1</sup> gross per month for 12 months, for each publication in a journal from the TOP5 list,
  - by PLN 1,500<sup>1</sup> gross per month for 12 months, for each publication in a journal from the TOP10 list,
  - by PLN 8000<sup>2</sup> gross in the form of scholarship, for a publication published in cooperation with an author representing a foreign research centre or a non-academic partner,
  - by PLN 16,000<sup>2</sup> gross per month in the case of commencing the implementation of a Horizon 2020 or Horizon EU projects as the coordinator, for the duration of the project + remuneration from the project,
  - by PLN 6,500<sup>2</sup> gross per month in the case of commencing the implementation of a Horizon 2020 or Horizon Europa project as a partner, for the duration of the project + remuneration from the project,

**Prospects for Professional Development:**

- 1) Work in reputable international research team.
- 2) Developmental research topics with a large impact on science.
- 3) Joint interdisciplinary research involving the acquisition of skills in other areas.

**How to Apply:**

Prospective candidates should make formal application by e-mail entitled POSTDOC-OE to:

Prof. Igor Perepichka ([igor.perepichka@polsl.pl](mailto:igor.perepichka@polsl.pl)) and submit the following documents (as PDF files):

1. University application form for an employment (download at <https://bip.polsl.pl/oferty-pracy/>).
2. Cover letter with an explanation of your interest in the position and statements confirming the fulfilment of general and additional requirements.
3. Detailed Curriculum Vitae (CV) with gained skills, list of publications and contact details of minimum three professional referees.

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<sup>1</sup> The amount of the grant for the team from the Silesian University of Technology shared in the amount depending on the author's participation among all authors from the University.

<sup>2</sup> Funds in the form of a scholarship awarded to the entire project team on behalf of the Silesian University of Technology, shared in the amount depending on the author's participation among all authors from the University.

4. You must arrange that your referees send their letters of recommendation (minimum 2) directly to [igor.perepichka@polsl.pl](mailto:igor.perepichka@polsl.pl)
5. A brief research statement regarding the past and present research (2-3 pages).
6. Copies of up to ten the most important publications.
7. Copies of PhD / MSc / BSc diplomas or equivalents.
8. Candidate's declaration that the Silesian University of Technology will be the primary place of work.

If you have any questions regarding this position, you can write informally with your question(s) to Prof. Igor Perepichka ([igor.perepichka@polsl.pl](mailto:igor.perepichka@polsl.pl)).

**The closing date for applications is 16 December, 2023 (11:59PM CET).**

Incomplete or late applications will not be considered.

**Next steps:** The initial selection of candidates will take place shortly after this date, and shortlisted candidates are expected to be notified within approx. 7 days and will be invited for an interview on the appointed date (online). The assessment for the post among the shortlisted candidates will include a presentation of your work during your PhD and/or postgraduate studies.

Please be informed we are only able to notify the shortlisted candidates about the outcome.

Postdoctoral positions are available immediately and we expect that successful candidates to be able to start work as soon as possible after offering the position.

#### **Informative Clause**

According to art. 13 of the Regulation on Personal Data Protection of 27 April 2016, please be informed:

- 1) The controller of your personal data is the Silesian University of Technology with its registered office at Akademicka 2A St, 44-100 Gliwice;
- 2) The Silesian University of Technology has appointed the Data Protection Officer who can be contacted via the email address: [iod@polsl.pl](mailto:iod@polsl.pl);
- 3) Your personal data will be processed in order to carry out the recruitment process for work at the Silesian University of Technology;
- 4) the basis for the processing of your personal data is art. 221 of the Labour Code and, if you agree to use your CV in future recruitments at the Silesian University of Technology, art. 6 clause 1 point a of the GDPR Regulation shall apply;
- 5) only employees authorized to process personal data to the necessary extent will have access to your personal data within the organizational structure of the Silesian University of Technology;
- 6) Your personal data shall not be disclosed to other entities, except in cases provided for by law;
- 7) Your personal data shall be stored for the period necessary to carry out the recruitment process or for the next 9 months from the end of the recruitment process, if you authorize the processing of personal data in future recruitment processes;
- 8) You have the right to request the access to the content of your data and, to the extent provided for by applicable regulations, the right to: rectify, delete, limit processing, raise objections; if you consent to the processing of data, you have the right to withdraw your consent at any time;
- 9) You have the right to lodge a complaint with the President of the Office for Personal Data Protection, if you feel that the processing of your personal data violates the provisions of the General Data Protection Regulation;
- 10) providing data is voluntary, but necessary to achieve the purposes for which they are collected.

Rector

prof. dr hab. inż. Arkadiusz Mężyk