

**Director of the Institute of Theoretical and Applied Informatics
of the Polish Academy of Sciences
announces open competition for two PhD Students on the EU Marie Skłodowska-Curie Program
SAILING on "Smart, secure and sustainable energy management"**

Institution: Institute of Theoretical And Applied Informatics of the Polish Academy Of Sciences

City: Gliwice, Poland

Position: Assistant

Employment Type: Full- time

Scientific discipline: information and communication technology

Announcement date: 28/01/2026r.

Submission: 28/02/2026r.

Website: www.iitis.pl

Description:

IITIS-PAN is recruiting two fully funded PhD Students to work with Professor Erol Gelenbe on the EU Marie Skłodowska-Curie Program SAILING on "Smart, secure and sustainable energy management". The work of the two PhDs will be based on Prof. Gelenbe's previous research in the areas of Energy Packet Network Models, G-networks, and Random Neural Networks, and focuses on addressing key research challenges such as:

- the intermittency and unpredictability of renewable energy sources, combined with rapidly changing energy demand,
- the need for resilient and secure management of large-scale distributed energy systems.

The research challenges include:

- the development of accurate real-time digital models (digital twins),
- securing artificial intelligence-based solutions,
- the optimization of energy consumption,
- rapid detection of faults and failures.

The SAILING project unites leading academic and industrial partners to create smart energy management and fault-diagnosis systems powered by advanced digital twin technology and secure AI, with AI-driven, high-fidelity digital twins, blockchain-secured AI, predictive energy optimisation, and deep learning for rapid fault detection, and will train early-career scientists to help create more efficient Internet of Energy systems.

Project leader: Professor Erol Gelenbe

Requirements:

- Completed Master's degree (at the latest by the start date of employment) in Science or Engineering from a recognized and accredited institution, **confirmed by official documentation.**

Students currently in the final year of a Master's degree can apply, but should note that if selected, they will be recruited starting on July 1, 2026 or later, after they complete their Master's degree.

- Interest in and ability to conduct interdisciplinary research at the intersection of computer science and engineering.
- Advanced programming experience, including substantial experience with stochastic processes, discrete event simulation and professional-level use of AI tools and methods.
- Excellent writing and communication skills in English (min. B2)
- Ability to work independently as part of a team.
- Willingness to follow the mobility plan of the programme within the Schengen Area and the UK.
- Commitment to obtaining a PhD degree before the completion of the 36-month employment period.

Additional advantages:

- Experience with authored publications in leading journals and conferences.

Required documents:

Interested candidates are requested to submit:

- a full CV
- a list of publications, list of talks at scientific events, and list of awards;
- confirmation of obtaining a Master's degree (diploma)
- a declaration stating that, in the event of winning the competition, IITIS PAN will be the primary place of conducting scientific research activity in the discipline of technical computer science and telecommunications, within the meaning of the Act of 20 July 2018 – Law on Higher Education and Science;
- a declaration stating that, in the event of winning the competition, I will declare my inclusion among the employees conducting scientific research activity in the discipline of technical computer science and telecommunications, within the meaning of the Act of 20 July 2018 – Law on Higher Education and Science;
- additional documents (or copies thereof) confirming qualifications ex. documents confirming Mobility Rule

Eligibility Criteria (MSCA)

All applicants must, at the date of the recruitment, comply with the following eligibility criteria:

- Candidate status: At the time of recruitment, applicants must not hold a doctoral degree or equivalent.
- Mobility Rule: Applicants can be of any nationality. However, applicants must not have resided or carried out their main activity (work, studies, etc.) in Poland (the country of the recruiting organisation) for more than 12 months in the 3 years immediately before the appointment. This excludes short stays such as holidays or compulsory national service.

Candidates are required to document in their applications their compliance with the eligibility criteria. To prove their eligibility, candidates can use supporting documents such as studies, residence or work certificates.

Benefits

- Employment may be offered for a period of 12 months, renewable up to a total of 36 months in accordance with the Polish Labour Code.
- Competitive salary and working conditions in accordance with MSCA Doctoral Network rules, adjusted to the cost of living in the host country.
- Full-time job from 01.07.2026.

The successful candidate will receive a financial package plus an additional mobility and family allowance according to the rules for Doctoral Candidates (DCs) in an EU Marie Skłodowska-Curie Actions Doctoral Networks:

total gross salary between **10 400 PLN do 15 300 PLN per month**

The final net salary received by the researcher will depend on individual tax and social security contributions as well as the exchange rate (PLN/EUR).

IITIS PAN does not provide accommodation.

Additional information can be found in the:

<https://op.europa.eu/en/publication-detail/-/publication/50387715-52b5-11ee-9220-01aa75ed71a1>

Competition applications must be submitted to the Secretariat of the Institute of Theoretical and Applied Informatics of the Polish Academy of Sciences, ul. Baltycka 5, 44-100 Gliwice, with a note on the envelope: "SAILING project". Alternatively, scanned documents can be sent by email to konkursy@iitis.pl with the subject line "SAILING project", and paper versions can be supplemented by sending them by traditional mail, if application will be accepted. The deadline for submitting applications is 28/02/2026r (the date of receipt by ITAI PAS is decisive).

Interested candidates are encouraged to contact the project leader, Prof. Erol Gelenbe , seg@iitis.pl for further information and clarifications concerning the opening.

By submitting your application for this competition, you consent to the processing of your personal data by ITAI PAS, as the personal data controller, for the purpose of recruitment for the position indicated in the competition announcement. You may withdraw your consent at any time by emailing to iod@iitis.pl
Full information on the processing of your personal data can be found here

<https://www.iitis.pl/sites/default/files/Klauzula%20RODO%20IITIS%20PAN.pdf>