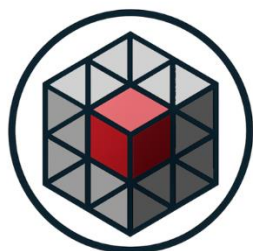


OFFER FOR A Senior AI Specialist / Machine Learning Engineer in the FIRST TEAM FENG FNP project



AiSSIST

Artificial Intelligent Support System
for Coordinate Tomographic Measurements

Position type	AI SPECIALIST – Senior AI Specialist / ML Engineer
Number of positions	1
Scientific discipline	Mechanical Engineering / Computer Science / Computational Sciences
Type of remuneration	part-time salaried employment (1/2 FTE)
Remuneration	11,655.00 PLN gross/month
Position starts on	1 st July 2026 r.
Period of contract	01.07.2026 – 31.12.2026 (with the possibility of extension, till June 30, 2029.)
Institution	Wrocław University of Science and Technology Faculty of Mechanical Engineering (W10) Department of Advanced Manufacturing Technologies (K97)
Offer Description	<p>The recruitment concerns a position within the research project <i>Intelligent Support System for Coordinate Tomographic Measurements AiSSIST</i> (no. FENG.02.02-IP.05-0038/24), whose Principal Investigator is Dr Eng. Grzegorz Ziółkowski. The project is implemented under the First Team programme and funded by the Foundation for Polish Science (FNP) through the European Funds for a Modern Economy (FENG). It will be conducted over a four-year period, with a total budget of PLN 4,000,000.00, entirely financed by the European Union.</p> <p>We are looking for a AI specialist – Senior AI Specialist / ML Engineer to lead the development, validation, and integration of machine learning and deep learning (ML/DL) methods, as well as explainable AI (XAI) solutions within the AiSSIST system. The role includes designing experimental protocols, evaluating model reliability, and preparing AI components for prototype and demonstrator stages. Work will be carried out in phases, in accordance with the research and validation plan, with a strong focus on achieving agreed milestones. The successful candidate will collaborate closely with the XCT measurement team, the simulation team, and a Research Software Engineer to ensure alignment of AI solutions with metrological requirements and project reporting.</p>
Responsibilities	<ul style="list-style-type: none"> • design and development of ML/DL methods supporting key AiSSIST functionalities (data/reconstruction quality analysis, parameter selection support, error correction and analysis components), • analysis of methodological issues (including data leakage), design of baselines, ablation studies, and evaluation of model generalization within a complete pipeline, • development of a strategy for the use of simulated and XCT measurement data, including simulation-to-real transfer and distribution shift analysis, • implementation and integration of explainability (XAI) methods as well as reliability/uncertainty estimation in the context of metrological applications, • definition of model evaluation metrics and reporting aligned with project QA metrics, including error case analysis, • implementation and maintenance of research code in Python, including configuration and versioning of models and experiments (in collaboration with a Computational Scientist),



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- preparation of AI components for deployment in the AiSSIST prototype and demonstrator, including data format and interface standards, model version tracking, as well as AI/XAI documentation and results reporting,
 - contribution to the preparation of scientific publications and presentation of results, as well as collaboration with the industrial partner on knowledge transfer.
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Requirements

Requirements:

- master's degree (MSc Eng. or equivalent) in Computer Science, Data Engineering, Artificial Intelligence, or a related field,
- at least 5 years of experience in ML/DL projects (R&D or industry), including independent experimentation and methodological decision-making,
- strong proficiency in Python and hands-on experience in implementing and training ML/DL models; ability to implement methods described in scientific literature,
- experience in designing validation procedures and evaluating model generalization, including baseline definition, ablation studies, and error analysis; understanding of key methodological risks such as data leakage, bias, and distribution shift,
- commitment to experiment reproducibility: documenting configurations and datasets, controlling randomness, logging parameters, and versioning models and results,
- ability to critically analyze scientific literature (method evaluation, identifying assumptions/limitations, reproducing results) and to draw conclusions based on experimental findings.

Nice to have:

- experience in preparing scientific publications (co-authorship),
 - familiarity with popular Python libraries for machine learning and computer vision, such as: scikit-learn, OpenCV, scikit-image, and PyTorch,
 - experience working with image/3D/volumetric data or with tasks such as segmentation and quality assessment,
 - knowledge of XAI approaches and practices for explaining model decisions (interpretability, uncertainty analysis).
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Soft Skills

- ability to work effectively in an interdisciplinary team and communicate technical concepts clearly (both written and verbal),
 - independence in conducting research experiments and solving methodological problems; willingness to work with incomplete specifications,
 - attention to detail in documenting decisions and reporting results; ensuring consistency and comparability of results over time,
 - responsibility for the reliability of model evaluation (validation, error analysis, XAI) and readiness to critically assess one's own solutions.
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We Offer

- work on an innovative, proprietary AiSSIST project that combines real industrial XCT process challenges with explainable artificial intelligence (XAI),
 - opportunity to conduct scientific research and co-develop the AiSSIST system from the research phase through to prototype and demonstrator within an academic environment,
 - high level of autonomy in selecting ML/DL/XAI methods and real impact on the direction of AI component development within the project,
 - work with unique datasets (XCT measurement and simulation data) and the opportunity to publish results in leading journals and conferences,
 - possibility of hybrid work with flexible working hours,
 - opportunities for professional development through participation in specialized training dedicated to project staff,
 - possibility of undertaking research internships with the project's academic partner,
 - monthly gross salary of PLN 11,655.00.
 - initial employment on a 6-month period, with the possibility of extension, till June 30, 2029.
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- Wrocław University of Science and Technology, as an inclusive employer, supports the employment of persons with disabilities. Information on the accessibility of selected University buildings is available at: <https://przewodnik.pwr.edu.pl/pl/>. Information on support for employees with disabilities and special needs can be found at: <http://dzd.pwr.edu.pl/pl>.

Eligibility Criteria

- CV including major achievements, scientific publications, awards, and research activities,
- cover letter expressing interest in the offered position,
- a copy of a university diploma confirming the award of a Master's degree,
- statement of receipt of information on personal data processing (Annex: RODO).

Additional recruitment information

- the recruitment will be conducted by a Selection Committee. The Committee will evaluate the applications based on: the candidates' competencies relevant to the tasks in the project, including prior experience in similar areas; their scientific achievements to date, including academic record, publications, and research activity; any awards, scholarships, or distinctions received.
- in the second stage of recruitment, the Committee will conduct oral interviews with selected candidates - candidates will be informed of the results via email,
- in accordance with the Act of 13 May 2016 on the Prevention of Sexual Crime and the Protection of Minors, and the Regulation of the Minister of Justice of 31 July 2017 on the procedure, method, and scope of obtaining and providing information from the Restricted Access Register, as well as the procedure for creating a user account, every person prior to employment will be required to submit documents specified in the aforementioned regulations, including a certificate from the National Criminal Register, and will also be verified in the Register of Sexual Offenders.

E-mail for sending applications and inquiries

patrycja.e.szyczyk@pwr.edu.pl (please include the reference number: 15052026/S/AI/AiSSST in the subject line of the email). Applications submitted without the reference number or after the application deadline will not be considered.

Application deadline

15 May 2026, 15:00