

## COMPETITION ANNOUNCEMENT

The Dean of the Faculty of Physics, with the consent of the Rector of the University of Warsaw, announces a competition for the position of **assistant professor (post-doc)**<sup>1</sup> in the project “**Quantum Entangled Photons for Probing the Dynamics of Organic Molecules**”

### About the programme/project/undertaking:

Title of programme/project/undertaking	<b>Quantum Entangled Photons for Probing the Dynamics of Organic Molecules</b>
Type of programme/project/undertaking	OPUS 28
Funding institution	National Science Center
Duration of programme/project/undertaking	48 months
Head of programme/project/undertaking	Dr hab. Piotr Fita, University Professor
Description of programme/project/undertaking	The project aims to investigate interactions between quantum states of light and matter and to develop new time-resolved spectroscopy techniques based on entangled photon pairs. Despite significant theoretical progress, experimental studies in this field remain scarce and often inconsistent. The project will address this gap through systematic experiments on organic molecules, enabling observation of intramolecular dynamics using entangled photons. New bright sources of entangled photon pairs and advanced measurement setups for ultrafast spectroscopy will be developed, paving the way for exploiting quantum effects in molecular studies and future photonic technologies.

### Position details:

Position title	Research Assistant Professor (Post-doc)
Organisational unit	Faculty of Physics
Employment group	Research
Position profile <sup>2</sup>	R2
Academic discipline <sup>3</sup>	Physical sciences
Number of positions	1
Form of employment and length of working time (proportionally to full-time employment)	Employment contract, full-time employment for 36 months

<sup>1</sup> The nouns used in the announcement apply to people of all genders.

<sup>2</sup> Complete only in the case of competition for the position in the research employment group or the research and teaching employment group.

<sup>3</sup> Complete only in the case of competition for the position in the research employment group or the research and teaching employment group.

Expected date of commencement of work and employment period	Employment start between 01.06.2026 and 01.08.2026
Remuneration	Basic remuneration 140 000 PLN gross gross/year (includes the additional annual remuneration, allowance for years of service, in accordance with regulations) More information: <a href="#">link</a>
Other working conditions	<ul style="list-style-type: none"> <li>– <i>Workplace:</i> Faculty of Physics, University of Warsaw, Pasteura 5, 02-093 Warsaw, Poland</li> <li>– <i>Career opportunities:</i> More information: <a href="#">link</a></li> </ul>
Basic responsibilities and obligations	<ul style="list-style-type: none"> <li>– Construction of experimental setups for spectroscopy of organic molecules using entangled photon pairs</li> <li>– Preparation of samples for experiments</li> <li>– Performing experiments using the developed setups and standard optical spectroscopic equipment</li> <li>– Analysis and interpretation of experimental results</li> <li>– Writing scientific publications</li> <li>– Presenting results at scientific conferences</li> <li>– Supervising students and PhD students participating in the project</li> </ul> <p>More information: <a href="#">Scope of responsibilities of the academic teacher</a></p>
Conditions for entering the competition <sup>4</sup>	<ul style="list-style-type: none"> <li>– Fulfilment of the requirements set out in Article 113 of the Law on Higher Education and Science (Journal of Laws of 2024, item 1571, consolidated text),</li> <li>– The candidate must have a doctoral degree (PhD) at the start of the employment,</li> <li>– The candidate must meet the conditions set by the National Science Center for people employed in a post-doc position. In particular, the person employed for this position must have a doctoral degree obtained no earlier than 12 years before the year of employment in the project. This period does not include breaks related to maternity leave, additional maternity leave, leave on the conditions of maternity leave, additional leave on the conditions of maternity leave, paternity leave, or parental leave granted on the terms specified in the provisions of the Labor Code or the receipt of sickness allowance or rehabilitation benefits in connection with incapacity for work, including those caused by diseases requiring medical rehabilitation. For women, the indicated 7-year period may be extended by 18 months for each child born or adopted. A woman can choose a more favourable way to indicate breaks in her scientific career,</li> <li>– The employment will take place in accordance with the NCN regulations, in particular the employed person must meet the following conditions jointly: <ul style="list-style-type: none"> <li>– their PhD degree has been awarded by another institution than the one planned to employ them at this post or they have completed a continuous and evidenced post-doctoral fellowship of at least 10 months in another institution than the host institution for the project and in another country than the one in which they have been conferred a PhD degree;</li> <li>– at the time of receiving remuneration, they will not be receiving any other remuneration paid from the funds granted to research projects under NCN calls under the heading of direct costs;</li> <li>– in the period of receiving the remuneration they will be receiving no remuneration from another employer pursuant to an employment contract, including an employer with registered office outside of Poland;</li> <li>– during the period of receiving this remuneration, he will not receive retirement benefits from the social security system;</li> <li>– will be employed for at least 6 months,</li> </ul> </li> <li>– Documented scientific achievements appropriate to the career stage.</li> <li>– Experience in at least one of the following areas:</li> </ul>

<sup>4</sup> Required by the Act, the Law on Higher Education and Science, the Statute of the University of Warsaw, as well as necessary for the position.

	<ul style="list-style-type: none"> <li>- optical spectroscopy</li> <li>- experimental optics</li> <li>- work with laser systems</li> </ul> <ul style="list-style-type: none"> <li>- Description of future research plans.</li> <li>- International experience (eg. participation in conferences or scientific exchange programs).</li> </ul>
In addition, we expect <sup>5</sup>	<ul style="list-style-type: none"> <li>- Skills in: <ul style="list-style-type: none"> <li>o construction of optical setups</li> <li>o preparation of samples for optical spectroscopy measurements</li> <li>o numerical analysis of measurement data</li> <li>o operation of data acquisition systems (designing such systems is an advantage)</li> </ul> </li> <li>- Basic programming skills</li> <li>- Ability to independently solve scientific problems</li> </ul> <p><i>If hired, we expect the University of Warsaw to be the primary workplace for the successful candidate.</i></p>
Criteria for the assessment of candidates in a competition	<ul style="list-style-type: none"> <li>- Assessment of scientific preparation relevant to the position,</li> <li>- Assessment of publications,</li> <li>- Assessment of scientific experience (conferences, presentations, collaborations etc.):</li> </ul> <p>In total, a maximum of 100 points can be awarded by each member of the selection committee. The candidate who meets the eligibility requirements for the competition and obtains the highest number of points—provided that this score is not lower than 60% of the total possible number of points—shall be declared the winner.</p>

*Position ~~related~~/not related<sup>6</sup> to activities covered by the protection of minors.*

#### **Competition rules:**

Announcement reference number	<b>WF-1210-5/2026</b>
Keywords	optics, spectroscopy, quantum physics
Deadline for submitting applications <sup>7</sup>	30.04.2026
Method of submitting an application	Email to: fita@fuw.edu.pl
Required documents	<ul style="list-style-type: none"> <li>- Candidate's questionnaire <a href="#">link</a></li> <li>- PhD diploma or certificate of obtaining the degree</li> <li>- If applicable — information on the planned date of obtaining the doctoral degree (the doctoral degree is required prior to submitting documents for employment)</li> <li>- Recommendation letters from at least 2 independent researchers sent by authors directly to fita@fuw.edu.pl</li> <li>- Description of previous research experience (maximally 3 A4 pages) including: <ul style="list-style-type: none"> <li>o skills relevant to the project</li> <li>o most important scientific achievement</li> </ul> </li> </ul> <p><i>Please ensure that your application is complete and submitted by the deadline indicated!</i></p>

The competition is the first stage of the recruitment process, please read the Policy of Open, Transparent and Merit-Based Recruitment at the University of Warsaw [link](#)

Stages of competition	<p><i>The competition consists of the following stages:</i></p> <ul style="list-style-type: none"> <li>- <i>Stage I - formal evaluation of documents,</i></li> <li>- <i>Stage II - substantive evaluation on the basis of submitted documents,</i></li> <li>- <i>Stage III - interview with selected candidates ,</i></li> </ul>
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<sup>5</sup> Additional conditions to be met; however, not meeting them will not lead to a negative formal assessment.

<sup>6</sup> Delete as appropriate.

<sup>7</sup> Not sooner than 30 days from the date of publication of the announcement.

	<ul style="list-style-type: none"> <li>- <i>Stage IV - final evaluation of competence, experience and scientific achievements,</i></li> <li>- <i>Stage V - adjudication of the competition and announcement of results.</i></li> </ul>
Anticipated date and method of notification of the competition outcomes	30.05.2026, Candidates will be individually notified of the competition results via email
Contact for any questions relating to the competition	By email to <a href="mailto:fita@fuw.edu.pl">fita@fuw.edu.pl</a> , with the announcement reference number Accessibility needs should be indicated on the Candidate's Questionnaire, in: <i>Other relevant information from a candidate</i>

**Employing faculty/unit:**

Research profile of faculty /unit	<a href="https://www.fuw.edu.pl/directions-of-research.html">https://www.fuw.edu.pl/directions-of-research.html</a>
Teaching profile of faculty/ unit	<a href="https://www.fuw.edu.pl/studies.html">https://www.fuw.edu.pl/studies.html</a>
Other information	

The University of Warsaw has implemented the procedure for whistleblowers reporting cases of law violation and for undertaking follow-up actions. For **more information** about this topic and the processing of candidates' personal data please follow the [link](#)

The University of Warsaw is a winner of the HR Excellence in Research award granted by the European Commission to institutions adhering to the European Charter for Researchers.

