



C4QEC

CENTER FOR
QUANTUM-ENABLED
COMPUTING



HR EXCELLENCE IN RESEARCH

PhD Student – Research assistant in Neutral Atoms Applications (f/m/x)

Ref. Number: MAB/28/2026

Location: Warsaw, Poland

Salary: 9 700 PLN/month gross (employment contract: 1 FTE; full social security and health insurance)

Number of positions available: up to 2

Work Arrangement: Hybrid

Position available as soon as possible and runs until the end of 2029; there is a possibility of extending the position beyond 2029 to complete the PhD thesis upon satisfactory performance

Keywords: neutral atoms, quantum control, quantum simulation, quantum optics, quantum information, many-body dynamics, hybrid quantum systems, quantum sensing

Important Dates:

1. Application deadline: **November 8, 2026**.
2. Candidates will be informed about the results by the mid of December.

Source of financing: Center for Quantum-Enabled Computing / Centrum Obliczeń Wspomaganych Kwantowo (FENG.02.01-IP.05-M032/25). The project is carried out within the International Research Agendas programme of the Foundation for Polish Science co-financed by the European Union under the European Funds for Smart Economy 2021-2027 (FENG).

About the project and us

The *Center for Quantum-Enabled Computing* project's overarching objective is to address several key challenges in the field of computing by paving the way to a verifiable, energy-efficient, reliable, and scalable computational advantage based on quantum systems.

Project's website: <http://c4qec.cft.edu.pl>

Successful candidates will join the newly created **Neutral Atoms Applications Group** led by **Dr. Piotr T. Grochowski**. The research activity of the group is centered on the two goals:

(i) Development of methods to model and control programmable quantum systems, especially neutral atoms in optical tweezers and Rydberg arrays. Possible topics



European Funds
for Smart Economy



Republic
of Poland

Co-funded by the
European Union



Foundation for
Polish Science



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Polish Science**

- **Master's degree (or equivalent) in physics or mathematics;** if not yet awarded, a supervisor's statement confirming the planned defense date is required.
- **Very good command of English.**
- **Very good knowledge of quantum physics.**
- **Good scientific programming skills**
- **Familiarity with quantum optics, atomic physics, quantum information, many-body physics, or numerical modelling will be considered an asset. Research experience, including thesis work, in a related area will also be considered an asset.**
- **Motivation and willingness** to work in an interdisciplinary team.

What we offer

- Opportunity to develop research skills and do research in a fascinating field in a creative, innovative and friendly work environment.
- Development of analytical and numerical skills in quantum control, quantum simulation, and related applications.
- Opportunities to collaborate with theoretical and experimental groups working on neutral atoms and related quantum platforms.
- Possibility to file patent applications within the project.
- Funds for participation in scientific events (conferences, workshops, etc.) to disseminate project's results, research visits at partner institutions;
- Access to computational resources at CTP PAS.
- Competitive salary: **9 700 PLN/month gross**. The indicated amount includes the seniority allowance and constitutes the Employee's base remuneration. The remuneration is determined and paid in accordance with the Remuneration Regulations in force at the Institute.
- Flexible working hours.
- A diverse and inclusive culture in which mutual support, teamwork, and respect are highly valued.
- Subsidy for a Multisport card.
- Subsidy for leisure activities.
- Subsidy for nurseries and kindergartens.

How to apply

Applications should be sent to: recruitment@cft.edu.pl, by **08.11.2026**, with the reference number ("**MAB/28/2026**") in the subject line.

Required documents:

1. **Curriculum Vitae** including education, research projects, and, where applicable, publications or conference presentations.



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2. **Transcripts of records** from both Bachelor's and Master's studies.
3. **At least one recommendation letter** provided by a senior researcher or an academic staff member evaluating the candidate's research skills and their previous research activity.
The letters are to be sent directly to recruitment@cft.edu.pl; the candidate is responsible for arranging for the letters to be submitted.
4. **A short cover letter** explaining the motivation for doing research in this field.
5. **Copy of Master's diploma** (or equivalent), if not yet awarded, a supervisor's statement confirming the planned defense date is required and the Master's diploma must be obtained before the employment contract is signed.
6. **Signed Data Privacy Statement** ([EN + PL - GDPR clause](#)).

Only shortlisted candidates will be contacted.

Shortlisted candidates will receive an invitation for an interview which will be held at the Center or online.

How we recruit

We carefully review every submitted application. Those whose experience and competencies align with our needs and requirements are invited to an interview (usually held online).

We stay in touch with candidates throughout the entire process, ensuring that interviews take place in a friendly atmosphere, and providing feedback after the interviews. We approach each candidate individually, also considering the needs of people with disabilities.

We appreciate all feedback received after the recruitment process. It motivates us to improve our recruitment efforts.

Our commitment to Equality, Diversity and Inclusion

The CTP PAS operates in an all-inclusive environment irrespective of personal, physical, or social characteristics. Teamwork is highly valued, individual strengths are recognised and appreciated, and we are committed to advancing the careers of everyone.

Equality, respect, and openness are fundamental values in an academic environment, where diversity is essential. We strive to provide a safe and inclusive space for everyone who is part of our scientific community.

The CTP PAS has regulations for reporting violations of law and protection of whistleblowers.

