

information, research on the cosmos and gravitation, semiconductors, and atomic gases. The Institute's strategy is to employ the strongest scientists while giving them freedom in conducting research. The result is the high position of CFT PAN in Poland, publications at a world-class level (papers in *Nature* and *Science*), a large number of grants (approximately 30 projects), and participation in international consortia.

The CTP PAS also hosts a number of scientific events, including seminars, workshops, and conferences, which are open to the public. The Institute also creates educational content accessible on its official [YouTube](#) channel.

About the role

We are seeking a person who will join the newly established Quantum-Assisted Computing Center (within the structures of the Center for Theoretical Physics of the Polish Academy of Sciences) — the first scientific unit in Poland dedicated to the application of quantum effects in computing.

Your responsibilities will include:

- Familiarization with the research lines conducted at the Centre.
- Realization of tasks stated in the proposal or other tasks stated by the project leader, using both analytical and numerical methods.
- Dissemination of the obtained results (writing articles, presentations on scientific events).
- Participation in the scientific life of the Center (seminars, meetings, etc.).

Researcher's profile according to the European Council's recommendations: R1

You will join the *Quantum Information and Certification Group* led by Remigiusz Augusiak (<http://raugusiak.weebly.com>).

Keywords: Quantum information theory, Bell non-locality, certification of quantum systems, quantum computing.

About you

Required qualifications, experience, and knowledge

We are looking for talented **students of physics or mathematics holding at least a Bachelor's degree** with a good background in theoretical physics (or mathematics), in particular in quantum physics.

The subject of the project is widely-understood verification and certification of quantum resources. The aim of the position is to familiarize with the subject of the project and then to do research on one of the problems specified by the project leader.



CENTER FOR
QUANTUM-ENABLED
COMPUTING



HR EXCELLENCE IN RESEARCH

Shortlisted candidates will receive an invitation for a short 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.



European Funds
for Smart Economy



Republic
of Poland

Co-funded by the
European Union

