



## Ph.D. student positions in the Quantum Molecular Systems Group

### Projects:

1) European Research Council Starting project: "**Ultracold polyatomic molecules for controlled chemistry and precision physics**" and the topic on accurate electronic structure and rovibrational calculations for heavy molecules and their application in precision measurements for probing physics Beyond the Standard Model.

2) Foundation for Polish Science project supported by the European Funds for Smart Economy: "**Ultracold polar molecules for quantum technologies**" and the topic on employing ultracold polar molecules in optical traps for quantum computing and simulation (+underlying molecular properties and interactions).

The projects will be realized at the Faculty of Physics of the University of Warsaw under the direction of **prof. Michał Tomza** (<http://quantmol.uw.edu.pl>).

### Candidate's profile:

- M.Sc. degree in physics or related field (as for the end of September 2025),
- Wish to complete Ph.D. thesis in physics in our group,
- Interest in the subject and motivation to scientific work,
- Knowledge of quantum mechanics and/or experience in programming.

### Application should include:

- Cover letter,
- Curriculum Vitae,
- Transcript of records from undergraduate studies,
- Contact details of two referees.

### Candidate should expect:

- Scholarship: **8500-10500 PLN/month** after taxes in total,
- Participation in projects at the forefront of AMO physics and quantum chemistry in collaboration with our foreign theoretical and experimental research partners,
- Participation in scientific schools and conferences,
- Learning and developing skills in the field of AMO physics and quantum chemistry.

### How to apply:

Applications should be submitted to prof. Tomza by e-mail: [michal.tomza@fuw.edu.pl](mailto:michal.tomza@fuw.edu.pl) not later than **May 20, 2025**.

All applicants are encouraged to contact prof. Michał Tomza prior to the application.