

Postdoctoral positions in the Quantum Molecular Systems Group

Projects:

- 1) "Quantum engineering of novel ultracold complex molecular systems: from diatomic to polyatomic molecules", FIRST TEAM grant, Foundation for Polish Science
- 2) "Ultracold polyatomic molecules: formation, dynamics, applications", SONATA BIS grant, National Science Centre Poland

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

The aim of the projects is to propose and theoretically investigate new applications and new ways of producing, controlling, and manipulating of ultracold complex molecules including both diatomic molecules in non-trivial electronic states and polyatomic molecules, and thus to extend the range of systems and quantum phenomena ready at hand to be produced and employed in modern ultracold quantum experiments.

Candidate's profile:

- Ph.D. degree in physics, chemistry or related field (at the day of employment).
- Interest in the subject and motivation to scientific work.
- Knowledge of quantum mechanics including electronic structure and scattering theory as well as experience in programming.

Application should include:

- Cover letter.
- Curriculum Vitae with the list of publications.
- Contact details of at least two referees.

Candidate should expect:

- Salary of **7500 - 10500 PLN** (brutto) per month for 12-36 months (from Jul 1, 2021).
- 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.
- To learn and develop skills in the field of AMO physics and quantum chemistry.

How to apply:

Applications should be submitted to dr. Michał Tomza by e-mail:
michal.tomza@fuw.edu.pl not later than May 31, 2021.

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