



# OPEN POSITION FOR A MASTER'S STUDENT WITH A SCHOLARSHIP

in a project titled "Topological Defects and Self-Bound Solutions in Mixtures of Ultracold Bose and Fermi Gases with Density Functional Theory" funded by the National Science Centre, Poland,

# lead by Dr Marek Tylutki

in the Nuclear Theory Group at the Warsaw University of Technology.

We look for a motivated physics student, who would like to participate in a research on superfluid mixtures of Bose and Fermi gases with the use of advanced numerical methods (high performance computing), for a one year Master's thesis.

## Starting date in October 2022

## Participating in the project you will:

- ✔ learn the physics of ultracold atomic gases
- ✓ get the experience with supercomputing.
- may participate in an international conference or a research visit (if the situation allows)
- ✓ be paid a stipend of 3500 PLN monthly for 10 months.

#### Expectations:

- ✓ student of the 2nd cycle of studies in physics
- ✓ general knowledge of theoretical physics and quantum mechanics appropriate at the MSc level.
- ✓ experience in programming in C/C++
- ✓ good knowledge of English

# Following will be a plus:

- experience with parallel programming and GPUs (CUDA programming)
- ✓ Python programming

# Applications should include:

- 1. CV with a description of scientific achievements to date
- 2. motivation letter with their scientific interests (maximum one page); it should contain the statement: "I hereby consent to the processing of my personal data I provided for the purposes of the selection procedure"
- 3. transcript of their academic curriculum with grades
- 4. optionally one reference letter sent to the following address: marek.tylutki at pw.edu.pl

**Complete** applications are expected to be sent by e-mail to: <u>marek.tylutki at pw.edu.pl</u> by the deadline of **15 June 2022.** 

### Selected candidates will be invited for an interview.

The selection process will comply with the rules set by the National Science Centre, Poland. Results will be known in July 2021.

More information at: <a href="http://tylutki.fizyka.pw.edu.pl/applications/">http://tylutki.fizyka.pw.edu.pl/applications/</a>