

Master Thesis project on development of a hybrid RANS/LES technique combined with transition model

Qualification Type: Master Thesis student
Location: Warsaw
Funding for: Warsaw University of Technology students (graduate studies)
Funding amount: 4500 PLN grant per month
Hours: Full Time
Project is funded by the National Science Centre (www.ncn.gov.pl)

The aim of this project is to develop methodology for simulation of turbulent and transitional flows using **computational fluid dynamics**.

Eligibility criteria

Candidates for funded position must demonstrate outstanding qualities.

Key requirements:

- Bachelor's degree in relevant engineering or applied mathematics or physics is essential;
- Candidate is expected to demonstrate knowledge, understanding and experience of mathematical and numerical modelling and the use of software package for mesh generation and for flow simulations;
- Proved very good knowledge of fluid mechanics and computational fluid mechanics;
- Good programming skills (C-language);
- Good command in spoken and written English language is desirable.

Information: Talented and hard-working researcher will be supported by a financial grant (4500 PLN/month). The student will be allowed to present his/her work at an international scientific conference, e.g. AIAA AVIATION Forum and Exposition, <https://www.aiaa.org/aviation> (all fees and expenses will be funded). Duration of financial support at least 6 months (12 months is preferred). Decision on acceptance of the project will be made after 1 month of training period. Start of the training period: October 18, 2021. End of training period: November 19, 2021. Project start: January 1, 2022 (contract agreement).

If you are interested, please send your CV and academic transcript to dr hab. inż. Sławomir Kubacki, prof. PW (Slawomir.Kubacki@pw.edu.pl).

Closing date: The first call for applications will close on October 15, 2021 (12:00). Only suitable candidates will be contacted.