

Doktorant stypendysta

Jednostka: Wydział Mechaniczno – Energetyczny

Miejsce pracy: Wrocław

Wymiar etatu: umowa stypendialna

Termin składania dokumentów: od 26.09.22 – 12.10.2022 do końca dnia

Planowany termin zatrudnienia: 2.11.2022

Opis stanowiska

The person selected in this competition will participate in research and development tasks carried out in the project entitled “Studies on the influence of the formation and evolution of micro-vortices on the intensification of heat transfer during a periodic disruption of the thermal boundary layer” funded by the National Science Centre of Poland within OPUS 22 programme (Proposal Number: 2021/41/B/ST8/03533). The project, led by prof. Sławomir Pietrowicz, is to experimentally observe macro flow structures around the rotating blade (scraper) and microvortices in the gap between the scraper tip and the heat exchange wall and numerical validation of proposed mathematical model of the phenomena.

Zadania

PhD candidate will be responsible for carrying out the numerical simulations and performing experiments on the test stand.

- Experience user of CFD software (Ansys Fluent, OpenFOAM).
- Constructing, assembling and commission of experimental set-up.
- Performing the experiment using the PIV technique.
- Participation in dissemination of the project (conferences presentations, co- and single- author academic papers, website materials).

Wymagania

Requirements for the candidate:

- A MSc in mechanical engineering, energetics, mathematics, or other related field with broad skills in heat transfer measurement
- Good command of spoken and written English
- Operate software for numerical analysis of thermal-fluid processes, CFD software such as OpenFOAM will be preferred, ANSYS package (ICEM, Fluent, CFX) will be an additional advantage
- Motivation for self-development and deepening knowledge in the field of thermodynamics and heat transfer

Wymagane dokumenty

- CV
- Motivation letter expressing interest in the offered position
- Copy of the master of science diploma

- EU General Data Protection Regulation) statement attached to this announcement.

*Note that if a candidate is from outside EU the PhD dissertation has to be written in English to be accepted

Informacje dodatkowe:

Typ konkursu: NCN: OPUS 22

Termin składania ofert: 12.10.2022 do końca dnia

Informacje dodatkowe

Applications should be sent to slawomir.pietrowicz@pwr.edu.pl with note "PhD candidate- OPUS 22" in the email title.

Detailed informal information can be obtained directly from the project leader: slawomir.pietrowicz@pwr.edu.pl

Shortlisted applicants will be contacted to arrange an online interview.

Oferujemy

Full employment contract initially for a maximum of 4 years (from November 2022)

Monthly salary 5 000 PLN (double gross, it would be the subject of taxes, social and health insurances and other legal deductions according to Polish law)

Zainteresowanych proszę również o podpisanie klauzuli RODO.