

PhD Student offer at Silesian University of Technology at Faculty of Energy and Environmental Protection

Investigation of the internal parameters of dual fuel engine, testing engine operation conditions, calibration of the lab-scale engine in terms of performance and environmental impact

Topic description:

The general concept of the PhD thesis will be focused on development a new direct-injection concept for ammonia combustion which will be theorized to improve NH₃ engine operation and solve the issue of ammonia slip, NO_x emission, efficiency, combustion stabilization, bringing the technology to an application-readiness level. The technology demonstration will be done in frame of Pol-Nor project *Ammonia as carbon free fuel for internal combustion engine driven agricultural vehicle (ACTIVATE)* in consortium of Silesian University of Technology, Norwegian University of Science and Technology, *University of Agriculture in Krakow together with industrial partner LOGE Polska Sp. z o.o.*

Candidates requirements:

Programing skills (Python or equivalent), LabVIEW – experience in Real Time application as well as basic knowledge of programing in FPGA mode, Basic knowledge of internal combustion engines are mandatory, Knowledge of the engine control systems, Master degree, Excellent English skills, Good communication, interpersonal and presentation skills are expected from the candidate

We offer:

- Full PhD Scholar at Silesian University of Technology plus contract of mandate founded from ACTIVATE project
- You will have the chance to work with research groups from other countries, attend conferences and workshops
- Part of the work can be conducted abroad.
- This will help you expand your horizons and enhance your personal development
- The start date is Autumn (01.10) of 2020

Contact:

To apply for the above positions, please send your CV, cover letter and copies of official transcripts of records in a single PDF file to Grzegorz.Przybyla@polsl.pl or Wojciech.Adamczyk@polsl.pl. The CV should contain the statement of consent to the processing of personal data for the purposes of the recruitment process. We reserve the right to contact only selected candidates. More information about recruitment process can be found at <https://rekrutacja.polsl.pl/jdsmain/>.

Programme operated by:

Project consortium: