Announcement of NTNU-CSC Exchange PhD Scholarship

Type of scholarship: exchange PhD

Period of the scholarship: 09/2020 to 08/2021; 12 months

Short description of the scholarship:

The aim of this overseas study is to learn the cutting-edge theory and key technology of the transcritical CO₂ heat pump used in trigeneration system. Candidate will actively participate in related experimental testing, data analysis, design optimization and theoretical research, in order to strengthen candidates’s research capability, enhance overall understanding of CO₂ technology and acquire advanced knowledge. The aim will be achieved through completing the following objectives:

1. Investigate the characteristic of the transcritical CO₂ heat pump for trigeneration system and participate in the testing of the prototype from TRI-HP project.
2. Analyze the data from experimental campaigns, find potential improvement measures for higher energy efficiency and propose modification schemes.
3. Upgrade the prototype according to the schemes, retest the modified prototype and verify the enhancement in energy performance.
4. Summarize the research theories and optimization methods, accomplish several research papers and publish them on respected international journals.

Qualification and requirement:

- Ongoing PhD
- Fluent English language, both written and spoken with certificates of TOEFL minimum 95 or IELTS minimum 6.5
- Chinese citizenship documents (copy of his/her passport or national ID of P.R. China)
- CV
- A motivation letter

Deadline for submission of application: (no late then the 20th February 2020)

Scholarship: 17000 NOK/month for a period of up to 12 months (exchange PhD)

No tuition fees will be charged for PhD candidates at NTNU.

Supervisor info: Armin Hafner, Professor, EPT, armin.hafner@ntnu.no, Tel: 92857730.
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