

Open M.Sc or Ph.D Positions with Scholarship

Development of Efficient Systems for Domestic Heat Pumps and Refrigerators Based on Refrigerant Mixtures and Sound Lubrication Systems

Supported by TUBITAK-2534

(International Joint Project by ITU-TU Dresden-Arcelik and Fuchs)

Currently around 15 % of the electric energy that is produced in Turkey or Germany is required for refrigeration devices. The largest part of the electric consumption related to refrigerators and dryers is caused by the compressors. The ultimate goal of the project is to increase the energy efficiency of the refrigeration as much as (~ 10 %) and heat pump systems (~15 %) and to decrease Ozone Depletion Rate by developing new refrigerant blends with appropriate lubricants and additives which are less harmless and more environment-friendly compared to conventional refrigerants.

- ✓ If you are interested, please send your application containing CV and transcripts.
- ✓ Ability to work full time at the lab, besides the course work.
- ✓ The candidates satisfying the following conditions will be preferred:
 - Master student in Heat and Fluid Flow Master Program
 - Ph.D. student interested in Heat and Fluid Flow
 - Background in Computer-Aided Design
 - Familiar with designing an experimental setup
 - Profound experience in CFD analysis (especially in ANSYS-Fluent)

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