Title: PERFORMANCE EVALUATION OF A HOUSEHOLD BOILER

Position Ref: BOILER

Position Availability: 1 student (2 semesters)

Project Description:
The duration of this project is 2 semesters. The performance of a household boiler will be tested at a lab in Yeditepe University Mechanical Engineering. Especially the effect of inserting a small object into the combustion chamber will be examined. This project includes working with the maintenance department of Yeditepe University to set up a natural gas system and a water system in the lab. Once the test setup is completed, the amounts of natural gas and air burnt up in the boiler and the water flow rate will be measured along with their inlet and outlet temperatures. Note that this project may take considerable time to build the test setup.

Work Description:
- Building the test setup
- Conducting experiments
- Writing a report

Required Qualifications and Skills:
- Basic knowledge on thermodynamics
- Academic research and report writing skills