



WORK OFFER

Ref. No. OM-2019-81

Employer Information

Employer: Sultan Qaboos University
P.o.box 33

132 Muscat
Oman

Website: www.squ.edu.om
Location of placement: Muscat
Nearest airport: Muscat
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 5000
Business or products: Education

Student Required

General Discipline: 14C-ELECTRICAL AND ELECTRONICS ENGINEERING
14D-MECHANICAL ENGINEERING

Completed years of study: 5

Field of Study: 14.1001-Electrical and Electronics Engineering
14.XX01-Energy Engineering
14.1901-Mechanical Engineering.

Language required: English Excellent

Required Knowledge and Experiences:

Building Simulation tools such as eQuest, TRNSYS, NREL Openstudio software, DesignBuilder or EnergyPlus

Other requirements:

Work Offered

The study will go through several phases:

(1) Data Collection Phase:

In this phase, basic data collection and information about the physical characteristics of residential buildings including the historical electrical bills will be conducted.

(2) Energy Audit Phase:

Energy audit will involve site visits to several SQU housings. Spot field measurement and diagnostic tests will be conducted.

(3) Building Simulation model and Calibration Phase:

Using the collected data from previous phases, a base case residential model will be developed using a whole-building simulation tool. The model will be then calibrated against the historical electrical bills.

(4) Energy Analysis Phase:

The calibrated computer model will be utilized to explore a number of potential energy efficiency measures (EEMs). This phase would require an optimization task for different EEMs.

Number of weeks offered: 6 - 8

Working environment: Research and development;Office work

Within the months: 16-JUN-2019 - 31-AUG-2019

Gross pay: 150 OMR / Month

Or within: -

Deduction to be expected: 0

Holidays: -

Payment method / frequency: /

Accommodation

Canteen at work: Yes

Expected type of accommodation: Student dormitory

Estimated cost of lodging: 100 OMR / Month

Accommodation will be arranged by: IAESTE Oman

Estimated cost of living incl. lodging: 150 OMR / Month

Additional Information

Dr Saleh Al-Saadi

Nomination Information

Deadline for nomination: 31-MAR-2019

Please send nominations by Exchange Platform

Date: 28-FEB-2019

On behalf of receiving country:

Ghazi Al-Rawas