Abstract

I'm about to complete my doctoral studies at Tarsus University's School of Graduate Studies in the department of Energy Systems Engineering. After completing my BSc and MSc degrees in Environmental Engineering, I received courses on X-ray spectroscopy techniques such as XPS and XAFS, which are related to my studies of my PhD thesis.

Despite the very popular use of synchrotron-based techniques by scientists worldwide, there are not so many scientists using synchrotron light for environmental science in my region. So, I am very proud of being a candidate who can use synchrotron-based techniques for scientific studies. The theoretical and experimental elements of the HESEB Research Stay program provided me with motivation for my studies and will provide me with very precious opportunities to use soft x-rays to investigate light elements with qualified data collected at the HESEB beamline.

I believe that the training provided through HESEB will have a great impact on my research and future plans. I am very happy that I will have the opportunity to apply the skills I have acquired from the programs that offer me a unique opportunity to improve and update my technical knowledge as a user of HESEB bemaline.

Keywords: Absorption Spectroscopy, Synchrotron, Electronic Structure, Research