

Subject: Statement of Purpose

To: Edinburgh University

Program: MSc Analytical Chemistry

Date: 24th April, 2021

To Whom It May Concern,

Chemistry's numerous subjects and concepts fascinate me, and I'm always curious about the causes and mechanisms behind them. Throughout my academic and professional experience, I have maintained a sense of conceptual continuity. As I progressed rationally and organically into a more difficult study, I became even more determined to seek a higher degree. The timing could not be better, and it would allow me to expand my intellectual and professional horizons. Being proactive, taking the initiative, and boldly participating in a higher networking and scientific community would boost my self-efficacy and confidence for my future professional step. With this enthusiasm, I hope to decipher the mysteries of analytical chemistry using both theoretical and practical expertise.

Withal, as an undergraduate student, I was fascinated by the numerous applications of chemistry. Until now, I have performed some personal studies on research utilizing LC-MS and other instrumentation techniques. One of these studies involved analyzing presentations on chemical and experimental investigations for the removal of emergent water contaminants. Interestingly, I am currently working on a research under the supervision of Dr. Ahmed Alshahrani – a reputable scientist in the Nuclear Science Research Institute (NSRI) at King Abdulaziz City of Science and Technology (KACST), in Riyadh, Kingdom of Saudi Arabia (KSA). The subject of this research is the synthesis, characterization, and evaluation of chitosan and chitosan crosslinked by PSSAMA for desalinating. I am positive that with the right guidance, I will be able to come out with an exceptional hypothesis and results. Having had a strong academic background in Chemistry, an intensive internship, laboratory and research experience, as well as belonging to the Saudi Chemistry Society (SCS), and the NSRI, I feel qualified to pursue a Master of Science Degree.

Furthermore, having carefully made my findings into the available programs that teach Analytical Chemistry applications, I have concluded that the University of Edinburgh's Masters of Science

program is by far the most appealing and appropriate – especially in light of my future career goals as a scientist. By receiving my Master's Degree in Analytical Chemistry, I will be able to make the most significant contributions to my society as well as my career and academic community in the future. Analytical chemistry applications, particularly water treatment (desalination), mass spectrometry applications and material characterization are at the heart of my research interests. I look forward to many decades of professional contributions in the field of analytical chemistry. Much of my interest in the aforementioned fields stems from a desire to not only enhance efficiency in design and manufacturing processes but also to give tried-and-tested technologies to improve water quality for general use and agricultural efficiency. I address these challenges with the same pragmatic zeal that is generally applied to Saudi's burgeoning petroleum industry, and the need to accelerate our transition to greener energy sources. I intend to continue involvement in all of these crucial areas of growth in Saudi Arabia, both in terms of financial and human development, as an academic and chemistry professional.

In conclusion, I envision myself working at a multi-research laboratory after completing this MSc degree. I hope to commit myself to cutting-edge research for decades to come. I aspire to have a distinguished career in both teaching and research, always promoting and seeking to continually inspire a deep sense of and appreciation for new scientific discoveries, bringing forth research-based theories that illuminate mysteries and point forward in new directions in a scientific quest to make the globe a sustainable place for all to live. Thank you for reviewing my application.

Best Regards,

Taghreed Alhuzaymi, Trained-Chemist Researcher

Cell-Phone: +966506231833

Email: Taghreed_M95@hotmail.com