

**Dear Admission Committee,**

*"If you truly want something, you will reach it"*. It is an Iranian proverb that I have always believed in and have had in my mind in all my endeavors. Now, I have decided to pursue my education in a joint doctoral position at two of the world's best universities, the University of Manchester and IIT Kharagpur. I am applying for admission to this joint doctoral program since I want a career in the research of Plastics Waste Management.

The undergraduate curriculum in Civil Engineering, Mahallat Institute of Higher Education, introduced me to a wide variety of subjects in the field of Civil Engineering. Various courses like Environmental Engineering and Principles of Water and Wastewater Engineering provided me with a strong footing in Environmental Engineering. Also, by taking the course Energy and Sustainable Development, I got familiar with waste recycling and conversion of it to energy.

While offering both depth and breadth across this field, these courses put into perspective the importance and relevance of Environmental Engineering and the application of their fundamentals to the problems faced by the real world. I made my decision to continue my education in Environmental Engineering - Waste Management, and I succeeded to get accepted to the best University of Iran - which is to say: The University of Tehran.

After entering the University of Tehran, I got familiar with different concepts of Waste Management and Treatment. I took courses such as *"Integrated Waste Management"*, *"Waste Recycling"*, *"Hazardous Waste"*, *"Life Cycle Assessment in Waste Management"*, and *"Conversion of Waste to Energy"*. During this time, I got to know Professor Gitipour and Dr. Baghdadi who are quite well-known and professional scientists in Iran. I decided to do my dissertation on treatment of soil and water polluted with hazardous materials. Due to the reason that I had passed the course *"Life Cycle Assessment in Waste Management"*, I believed environmental actions should be integrated and not just focused on one single aspect. I knew that my country is suffering from polluted sites as well as a shortage of water resources. So it was of utmost importance for me, as something I regarded valuable, to reuse effluent of the soil washing process. I always enjoyed working in the laboratory and it has always been a pleasure to work more than the permitted hours in the laboratory. I would also get along well with other students in the lab, and we would collaborate with each other with regards to the usage of apparatuses and our work.

I am much eager to adopt and know more about Waste Management, especially in developing, designing, and modeling contemporary ways of Plastics Waste Management. While taking the *"Integrated Waste Management"* course, I learned comprehensive management of all kinds of wastes as well as plastics waste which are one of the fastest-growing materials in today's world, with the majority of them ending up in landfills. I researched a range of essential strategies for managing various types of wastes, ranging from municipal to industrial and hospital wastes, and I got very interested in learning more about how to minimize the environmental risks they provide. I am really passionate about attending this joint Ph.D. program at IIT Kharagpur and University of Manchester in order to develop a business model for sustainable plastics waste management. As mentioned prior, I genuinely like to develop and further increase my knowledge of integrated environmental concepts, and when I saw this position's advertisement, I really became intensely interested in it. The main reason why I want to pursue my graduate studies is that I want to take steps towards higher degrees of knowledge in Waste Management, and help people who are suffering from problems related to this area and also prevent future issues from ever taking place.

Moreover, I feel I am responsible for making a big difference in this field and this position will give me a big opportunity to one day become someone who the world remembers for his innovations. I think it is my duty as an individual to share my skills, experiences, and knowledge to the best of my ability in this world to make our future better. Because the future does not only belong to us. The next generation should be proud of us when they look back and find how hard we have worked to make the world a better place. I believe my qualification and your needs would be an excellent fit. I will be happy to provide any further information or documents if required. I look forward to your positive response. Thank you for your time and consideration.

**Kind Regards,**

**Hamed Niati**