

## Statement of Purpose

*Name* : Saurya Nayak  
*Department* : Earth Science  
*Programme applying for* : IITKG甫-University of Manchester Dual Doctoral Degree Program  
*Primary Interest* : Hydrogeology

There can be no greater joy and no more sense of satisfaction for a person than knowing that her innovations and ideas are being applied and appreciated by people all around the globe. With this in mind, I have decided to embark upon a career as a research scientist. My decision to apply for this project offered by the Department of Earth Sciences at IIT Kharagpur in Association with the University of Manchester is based on a careful examination of the faculty's research interest that has made me interested.

I am a final year student presently continuing my M.Sc. dissertation on the topic "*Evaluation, Estimation and Geostatistical Modelling of the Lead- Zinc Deposit of Kayar Block, Ajmer District, Rajasthan*" under the guidance of Prof.B.C.Sarkar. I have also done a research internship on the topic "*Major and Trace Element Geochemistry and basic principles of U-Pb Geochronology*" from WADIA during 2019. During this period also I got a better insight about instruments like XRD.

I am deeply interested in doing the hydrogeochemical analysis as well in learning to map the groundwater contours as well as develop a better understanding simultaneously about the environment of occurrence and draw inference based on that. As such geochemistry is a field that interests me the most in terms of the correlations that it portrays between the elements their occurrence as well as the processes that aid in their presence in a particular place.

My final objective is to pursue a career based on Geological Research and by doing that I will move one step forward towards my desired destination. I always find a sense of pleasure in solving a new problem and wish to take up a career involving academic research.

Saurya Nayak