

## SOP

It is said that knowing yourself is the beginning of knowing the cosmos. The endeavor to acquire knowledge is both interesting as well as challenging. I have certain personality traits which make me inclined for acquiring such knowledge. I am always keen to learn new things and make their in-depth analysis. I also have inquisitiveness for new concepts and knowledge domains.

Benjamin Franklin has said "If you would not be forgotten, as soon as you are dead and rotten, either write something worth reading, or do something worth writing". This is basis of my aspiration to publish my research work. I strive to leave behind a set of theories and principles through research and subsequent publication that are worth reading and implementing. I want to contribute maximum to the society through my research and knowledge which I have gained over the years.

I did my graduation in Civil Engineering. I believe each and everything in this world is interconnected and if you have a desire to learn then you can't be rigid. This conviction prevented me from declining a job offer during my campus placements, and as a result, I was offered a position with Accenture, the world's leading IT firm. The 1.3 years I spent at Accenture taught me a variety of skills, including presentation, communication, decision-making, analytical and logical thinking, and so on. I've learned the fundamentals of Java, SQL, and SAP, which has greatly improved my coding abilities. During that time, I participated in a variety of training programs, each of which taught me something new. My ability to learn propelled me forward, and I decided to obtain a Master's degree. I balanced my work and preparation simultaneously and passed the GATE-2019 exam, which led to my admission to IIT(ISM) Dhanbad. Confidence in civil engineering concepts and a desire to learn more about earthquakes led me to select "Earthquake Science & Engineering" as my specialization in the department of Applied Geophysics. Most of the dimensions of Geophysics were successfully introduced to me by the design of the coursework and practical experiments. I took a variety of courses such as "Seismic Hazard Zonation," "Hydrology," "Geotechnical Modelling," "Earthquake Seismology," "Remote Sensing & GIS," "Finite Elements," "Sustainable Engineering," and others, all of which helped me develop a solid base in the field of geophysics. I've also completed the majority of Mathworks' MATLAB training courses with flying colours. I am currently working

on a thesis titled "Seismic Vulnerability of Hill Buildings" with the aim of serving society through my knowledge and research. In addition, with the aid of my guide, I wrote a review paper on the topic "Aftershocks and Their Effects," which still needs to be edited and modified before final submission. My main research focus is in applying Civil Engineering and Geophysics principles for the betterment of society.

IIT Kharagpur & Manchester University both are pioneer and trendsetter in the field of research & education. I aspire to be part of an institute that constantly changes the existing status quo by evolving its ways and treads new path for others to follow. The eminent faculty and the individualized nature of the doctoral program will definitely bring out the best in me. It has excellent research facilities combined with distinguished and dedicated faculty. I am sure if I get this opportunity, I will make best use of it and do justice with research and academics. Thank you very much for patient reading.

Yours Sincerely

Mohit Bhartia

A handwritten signature in blue ink, appearing to read "Mohit Bhartia".