

# **Statement of Purpose**

## **Application for admission in Joint Doctoral Programme**

Respected Sir/Madam,

Most humbly, I'd like to state that, my name is Sutonu Sadhukhan. I was born on the 11<sup>th</sup> of February, 1995. My father, Mr. Swapan Sadhukhan is a retired Manager of: Uttarpara Co-operative Bank and, my mother Mrs. Krishna Sadhukhan is a House-wife. I've done my schooling from: *Uttarpara Government High School* i.e. 2<sup>nd</sup> oldest school of West Bengal, where I secured a total of 84.4 % in the "*Madhyamick*" (Secondary Board Examination) and, 80.2 % in the Higher Secondary Board Examination.

### **Academic Background &, Work-Experience:**

I pursued my *B.Tech* from: *NIT Durgapur* (2013-17) and, *M.Tech* from: *IIT Kanpur* (2018-20) both in the branch of: *Chemical Engineering* where I secured a CGPA: 7.6 &, a CPI: 8 respectively out of 10. I'm having 1 year of past Work-Experience (July 31<sup>st</sup>, 2017-18) as an Engineer in the department of: Water Systems of: *M. N. Dastur &, Co. Pvt. Ltd.* Kolkata. Presently, I'm working as an Engineer (Trainee) in the department of: Conversion Process in the Taloja Plant of: *Galaxy Surfactants Limited*, Navi Mumbai.

I've done my UG End-Semester Summer Training (May, 2016) from: Dankuni Coal Complex, SECL, Coal India Limited, where I got an opportunity to understand how the Producer Gas is generated and, Continuous Vertical Retorts (CVRs) work in a Coal-Carbonization Plant to produce Soft-Coke and, Coal-Gas from non-metallurgical coals. In the previous year (June &, December, 2015), I had undergone Vocational Trainings under the authorities of: Nalco Water India Limited of: Ecolab and, Durgapur Cement Manufacturing Unit of: M. P. Birla Group. I've also undergone 1 on-job Training (February, 2018) as a Dastur Consulting Engineer at VSP (RINL) during the execution of its 6.3 MTPA Expansion Project.

### **Research Interests:**

For the manifestation of our inner desires into concrete realities, there is no better way than working with indefatigable spirit towards our goal. So, I strongly believe in: "*learning by doing*". It's the hope of coming up with path-breaking results, streaked with an element of uncertainty that makes experimental research extremely fascinating. My UG and, PG Project-Works have given me glimpses into the world of direct Experimental and, indirect Simulation research &'ve strengthened my conviction that this is where I can find intellectual satisfaction.

I was a medical aspirant in High School, wanted to become an Orthopedic Surgeon to treat patients like my parents suffering from Arthritis. Biology was my favourite Science-Subject as my HS Transcript suggests; though, I was compelled to select Engineering as a career option due to financial instabilities of my family. But, I decided to return to academia and, add value in the health-care sector in a way i.e. sustainable to the environment as soon as I came to know that, newly engineered hydrogel can stop the breakdown of cartilage tissues in the bone-joints, allowing stem cells to adhere and,

reinforce cartilage that can promote rapid healing post–arthritic/accidental injury. The PhD Position with the India-UK Joint Doctoral Programme for the project: *"Using waste products to sustainably produce peptide hydrogels for health-care applications"* under your valuable guidance shall be, if selected, an excellent opportunity for me to contribute to the novel medical research area on: peptide-hydrogels and, fulfill my childhood dreams being in a Chemical Engineering profession.

### **Other Interests:**

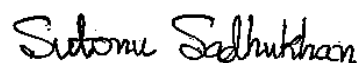
Apart from my academic career, I've worked as an initiating member of the Hall-Night Organizing Committee in my pre-final year's B.Tech hostel and, held many academic/non-academic PoRs during my Masters as well as in my school-days. I had a 4-year's membership of ISTE, NIT Durgapur. I've keen interests in Art, Ethics &, Character Building, Vedic-Science behind the origin of Eastern Religions, Para-science and, Spirituality. I dislike blindly following or, believing in age-old traditional thumb-rules. I'm rather oriented and, inspired by the practical approach of real-time problem solving. I'm a focused, dedicated and, hard-working individual.

### **My Aspirations:**

I'm preparing well for the IELTS Exam. When I took-up practice test for that, I got comfortable score-band. I'm sure that, I'll be able to maintain high standards and, show utmost dedication to my work if I happen to pursue my doctoral studies under your experienced &, well-qualified supervision &, valuable mentorship coupled with the right environment and, research facilities. Any financial assistance would be of great help to me. I hope that my diligence and, abilities would prove fruitful in securing admission into the Joint PhD Programme. With the degree from both the institutions, I'll be able to fulfill my career ambition of a researcher and, a teacher in the field of: Chemistry and, Chemical Engineering.

Thanks &, Regards

Yours sincerely,



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**"If you want to find the Secrets of the Universe, think in terms of: Energy, Frequency and, Vibrations." ----- Nikola Tesla**