

## COVER LETTER

Dear Sir/Ma'am,

Greetings from Parth Pandit!

In response to your PhD posting for a role, I am including this cover letter and my resume for your kind perusal and information.

I am writing to express my strong interest in the **PhD program at IIT Kharagpur and University of Manchester**. I am excited about the opportunity to work with leading researchers in this field and contribute to the development of cutting-edge research in biomedical devices. I have a background in biotechnology, Cancer studies, molecular biology, biochemistry and cell biology. I have been working on various projects related to biosensors for the past few years. My experiences have given me a solid understanding of the principles and techniques used in biosensor development and cancer associated cachexia and virology. I have also gained valuable experience in laboratory work, including the design and implementation of experiments, data analysis and interpretation, and presentation of results.

**I am particularly interested in the application of biosensors in the field of healthcare, particularly for early diagnosis of diseases. I believe that the development of highly sensitive and specific biosensors has the potential to revolutionize the way we diagnose and treat diseases. I am eager to contribute to this field by working on the development of new biosensors and exploring new applications.**

I have successfully completed the **Master's degree in Advanced Pharmacology from University of Strathclyde, Glasgow with Merit under Dr Gwyn Gould**. I have successfully completed projects pertaining to **Molecular docking, designing biosensors (Bachelors) and drugs and working on adipocytes and metabolic diseases for cancer associated cachexia, stress biomarkers**. I have the necessary wet and dry lab skills suitable for the role. Recently I was invited for a conference where I presented my project on Point of care diagnostics called as 'Stressometer' which detects cortisol level non-invasively through saliva at International Centre for Theoretical Physics, Italy. I have done biosensor projects on cortisol and creatinine as diagnostics and need to spread my array to other biomarkers.

I'd like to explore research possibilities with you, for the higher purposes of my professional interests, progress, and goals. More so, because of my profound, passionate interest in the field, and the wonderful milieu and opportunity I envision that exists, at your lab, renowned for its stature, vision, values, and dynamism. I have also keen interest in gene and stem cell-based treatment for advanced glaucoma or any such disease. I have my interests in **molecular modelling, 3D printing, drug design, Cell culture techniques, docking, oncology, antimicrobial resistance, biosensors and POCDs** and these interests are grown from the projects which I have worked on and currently working.

I've the foundational grounding, as well as related academic and research attributes, in place, not to speak of 'on the ball' experience in the subject – the perfect springboard to launch my next professional pursuit. I look forward to the opportunity to contribute to the research in this field. My work motto, quite simply, is: what I contribute to the institute, in the best manner possible, is far more important than personal milestones, although the latter, as a catalyst for growth and expansion of knowledge and accrued insight is part of the whole process. I look forward to hearing from you — with pulsating optimism and profound enthusiasm...

Many thanks, and warm regards,

PARTH GURUDATT PANDIT