



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Department of Mechanical Engineering

MAHATMA GANDHI AVENUE

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Letter of Recommendation

To

Date: 06-03-2022

The admissions committee,

Indian Institute of Technology, Kharagpur, India,

University of Manchester, United Kingdom

I hope this letter finds the reader hale and hearty, and kindly accept my sincere regards. I am writing this letter of recommendation in support of Mr. Malyadeep Bhattacharya's candidature for the joint-doctoral program at the Indian Institute of Technology, Kharagpur and the University of Manchester. It is my absolute pleasure to recommend him for the program.

I made contact with Malyadeep two years at the National Institute of Technology, Durgapur. He took a keen interest in fluid mechanics and heat transfer. I introduced him to Computational Fluid Dynamics and he studied the concepts with great enthusiasm. Quickly he became quite proficient in developing own solvers and implementing various schemes to solve fluid flow and heat transfer problems and validated the results against benchmark results. Later I, along with Dr. Tanmoy Mondal at MNNIT Allahabad introduced him to Lattice Boltzmann Modelling and he took great interest in it. Since then, he has put great effort into exploring this technique completely unknown to him. He has participated in various discussions and presented his observations. He went through numerous pieces of literature to get a solid grasp of the underlying concepts. He is hardworking, patient, and deals with the problem at hand intelligently keeping in mind the resources available. His creativity and versatility make working with him interesting. Malyadeep has demonstrated his ability to conduct independent research with great enthusiasm but he also takes well-informed decisions, running by me and others involved first, making him a team player as well as consistent.

Overall, Malyadeep is an outstanding young man and has shown great potential in academic research. I believe this program if offered to him will help him gain more experience, develop new skills and train him to become a successful researcher. Should you need any further information about this promising young man, please feel free to contact me.

I give my highest recommendation to Mr. Malyadeep Bhattacharya and wish him a very bright future in research.

Best Regards,

(Shantanu Pramanik)

Dr. Shantanu Pramanik

Assistant Professor

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