M ADISHREE

MASTER OF SCIENCE

I am M. Adishree, a graduate of National Institute of Science Education & Research (NISER), class of 2015-20, seeking an entry-level position in Clinical Research Organisations(CRO), Pharmaceutical companies, and Life sciences & healthcare industry.

My enthusiasm for science, especially biology, augmented in high school through active participation in classroom discussions, after-school talks with my science teachers, and excellence in all the internals and boards.
Securing a seat in NISER was a milestone in the journey of science. After completing the 1st year, I chose Biology as my major, and Chemistry as my minor. The advanced course structure, stimulating group assignments, laboratory practicals, weekly colloquiums, and internships, strengthened my passion for biology.

Earnest teachings and materials provided by my professors, piqued my interest in Molecular biology, Immunology, and Bio-informatics. After taking the introductory courses, I gained a predilection toward related courses. I took these courses diligently and performed relatively well than other courses.

In my first summer, I worked on “De novo protein synthesis” under Dr. Rudresh Acharya's guidance (NISER) guidance. I learned about the hanging drop vapor diffusion method of crystallization, X-ray diffraction, and protein purification.
The following summer, I worked on “Characterization of phytohormones produced by phytopathogens”, under Dr. Radhika Venkatesan (NCBS, Bengaluru). In particular, the project was based on methylated cytokinins produced by *Rhodococcus fascians*, which contribute to pathogenesis as hormone mimics. Due to time constraints, I only got to do the expression and purification of the enzyme, methyltransferase, which forms methylated cytokinins.

At the beginning of my 7th semester, I started working on my MSc project, titled “Abiotic stressors and organismal responses”, under the guidance of Dr. Renjith Mathew (NISER). My project aimed to look for immunological responses against hypoxia, an abiotic stressor. I also worked on another project, titled “A novel tool for RNAi studies in *Drosophila melanogaster* ”. The objective was to first, develop a recombinant fly line showing enhanced RNAi activity and then validate it by comparing it with the activity of the RNAi line readily available.
In the summer of 2019, I worked on “Detection and characterization of membrane proteins in *Drosophila Melanogaster* using Western blotting”. The aim was to check for working antibodies against various membrane proteins. Alongside, I joined Dr. Subhasis Chattopadhyay’s team(NISER) the same summer for a brief period, to learn about T-cell isolation from mouse spleen and activation and flow cytometry in detail.

I graduated in July 2020, amidst the pandemic. Ever since then, it has been a rough couple of years recovering from the reverberations of the distress and global recession, both mentally and physically. Securing employment has been tough evidently. I have managed this time to work on myself and also learn about recent trends to comply with employment needs in the sectors I seek. I took up online courses to learn DBMS, SQL, Python programming and studied more about the functioning of the aforementioned industries. I also started learning new languages like French, Mandarin, and Latin, to enhance my verbal and spatial abilities, and improve my overall cognitive development.

I am motivated to pursue a career in these industries and maintain a full-time position that offers professional challenges utilizing interpersonal skills, excellent time management, and problem-solving skills. I believe that my training, experience, and passion make me a good fit for your team. I am confident that I have a realistic impression of the demands and challenges of company goals. I am proactive and excited to partner with like-minded individuals to achieve these goals. I look forward to using my knowledge and skills to acquire competence in the corporate world and contribute meaningfully to the company's success.