

Department of Biotechnology, IIT Madras
MS (by Research) admissions Jan 2024

List of available MS (by Research) Project titles

1) CB- Computational Biology Stream

| Faculty Name | No of vacancies | Project titles |
|---------------------|------------------------|---|
| Meiyappan Lakhmanan | 1 | Development of computational modeling and multi-omics analysis framework for biomanufacturing and healthcare applications |
| M. Hamsa Priya | 1 | Machine Learning Accelerated Conformational Sampling |
| Karthik Raman | 1 | Synthetic biology: ML and model-driven approaches to design biological circuits Microbiome systems biology: ML & Network science-driven approaches to identify key differences between microbiomes in varying environments |
| Richa Karmakar | 1 | Modelling cell surface dynamics and cell-cell interactions |
| Himanshu Sinha | 1 | Gestational age and preterm risk prediction models for the Indian population |

2) BS- Biological Sciences Stream

| Faculty Name | No of vacancies | Project titles |
|---------------------|------------------------|---|
| K Chandraraj | 1 | Bioremediation of mining industry wastes |
| Nitish Mahapatra | 1 | Post-transcriptional regulation of candidate genes for cardiovascular disease |

3) BE- Biological Engineering Stream

| Faculty Name | No of Vacancies | Project titles |
|---------------------|------------------------|--|
| K Chandraraj | 1 | Value added products from biorefinery effluents |
| Smita Srivastava | 1 | Bioreactor cultivation of plant stem culture of A. indica for sustainable production of Azadirachtin |