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DBT, BIRAC announce joint call for proposals on Bio-AI hubs

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To provide critical and novel research leads impacting Health, Agriculture and Environment



The Department of Biotechnology (DBT) and Biotechnology Industry Research Assistance Council (BIRAC) have issued a Joint Call for Proposals on Bio-AI for establishing à¤®à¥?à¤²à¤¾à¤?à¤?à¥à¤° hubs under BioE3 Policy for Biomanufacturing. Bio-AI hubs are proposed to be established across academia and industry to provide critical and novel research leads impacting Health, Agriculture and Environment through conglomeration of AI and Biology.

The Letter of Intent (LoI) for Bio-AI is uniquely designed to utilise AI in Biology for solving key biological challenges in Biomolecular Design, Sustainable Agriculture, Synthetic Biology, Ayurveda and Genome Diagnostics. Therefore, the problem statements in these domains as well as possible research solutions are invited from multi-disciplinary teams with research expertise across fields of synthetic biology, AI/ML and Computation to address complex biological research challenges. The problem statements are to be addressed by data-driven, cutting-edge, multi-disciplinary programmatic research initiatives for projected outcomes.

The Union Cabinet approved the BioE3 (Biotechnology for Economy, Environment, & Employment) Policy, in August 2024, for ‘Fostering High-Performance Biomanufacturing’ across the country. Subsequently, The Union Cabinet, chaired by the Prime Minister Narendra Modi, approved continuation of the two umbrella schemes of Department of Biotechnology (DBT), merged as one scheme-‘Biotechnology Research Innovation and Entrepreneurship Development (Bio- RIDE)’ with a new component namely Biomanufacturing and Biofoundry. With in the ambit of “High -Performance Biomanufacturing”, establishment of Bio-AI hubs for building of data driven and cutting edge paradigms in the areas of Health, Agriculture and Environment.