

# BIOTHON

*Hackathon of Biotech Solutions for State Problems*

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## Introduction & Objectives

Scheme on Hackathon of Biotech Solutions – abbreviated as ‘Biothon’ that has been approved as ‘New Item’ by the Legislative Assembly for year 2018-19. BIOTHON – short for Biotech Hackathon or a Hackathon oriented towards motivating the scientific thinkers and innovators to come up with biotechnology-based solutions for state/ community problems in a defined time-limit.

Biothon attempts to seek objective-oriented solutions - Technologies or a ‘Minimal Viable Prototype’ for the problems of significance to the State/ Community, but more importantly, inculcate a mind-set of problem solving and undertaking goal-oriented impactful research in the young innovators as also sensitize in the innovator fraternity the need of them contributing to alleviation of misery in the community around, while promoting ‘Out-of-box’ thinking.

## Themes

The focus of the Biothon is to identify hacks and develop technologies that solve state’s problems; mere research projects without achievable goals will be not considered.

The themes dovetailing the National priorities, have been identified as follows:

### 1. Swastha Bharat

#### *Indicative projects:*

- a. Probiotic Solutions for Vitamin B 12 deficiency
- b. Probiotic solutions for disorders based on Vitamin A deficiency (VAD)
- c. Probiotic solutions for Vitamin D deficiency
- d. Portable kits for rapid detection of particular disease/ epidemic relevant to the state
- e. Small medical device relevant to the state

### 2. Swachh Bharat

#### *Indicative projects:*

- a. Solutions for degradation (and not decolourization) of industrial effluents containing specific dyes &/ or dyes stuff
- b. Solutions for human wastes dumped at Municipalities/ Panchayats landfills/ dumping sites
- c. Solutions to landfills dumped at industrial sites
- d. Solutions for Heavy metal accumulation at Ship breaking yard sites
- e. Portable kits for converting contaminated water into potable water

### 3. Digital India

***Indicative projects:***

- a. Use of Information Technology for Healthcare
- b. Use for Information Technology for Agriculture
- c. Use of Information Technology for Animal Husbandry
- d. Use of Information Technology for Environment
- e. Use of Information Technology for Marine

**4. Make in India**

***Indicative projects:***

- a. Bio-based Solutions/ technologies that substitute import
- b. Portable kit/ Ampule test for reliable detection of GM in seed /crops
- c. Bio-based Solutions that solve an existing problem of the Industries of the state
- d. Bio-based technologies of State domicile [Bio-based Solutions/ technologies developed by institutions/ individuals of the state] with ready (evidenced) export markets/ customer-base
- e. Customization (of a tested/ validated bio-based technology/ solution) to address a crucial need of the state

**5. Preserving natural resources**

***Indicative projects:***

- a. Portable kits for converting contaminated water into potable water
- b. Technology to reclaim metals/ minerals from e-waste
- c. Technology for mining minerals using bacteria/ microorganisms
- d. Portable Technology for purifying indoor air

**TENTATIVE DATES**

- Proposal submission opens: 15<sup>th</sup> August, 2018
- Last date for submission: 01<sup>st</sup> October, 2018 (12:00 Noon)
- Evaluation and shortlisting of applications: Tentatively August, 2018
- Presentation of Shortlisted idea for BIOTHON: Tentatively by end of October, 2018
- Declaration of Grantees: 5 best candidates under each Theme will be shortlisted and granted INR 50,000/- each for the development of Technology / Minimum Viable Prototype (MVP) for a period of Four months (Tentatively by November 2018)
- 1 winner team from each of the shortlisted teams for each theme will be selected and awarded a prize money of INR 1 lac.