



# BIRAC HACKATHON 2016

on

**Improved Point of Care Device for screening, detecting, monitoring for Non-Communicable Diseases (CVD, diabetes, oncology, neurology etc) as well as Assistive Devices**

## Introduction

The Biotechnology Industry Research Assistance Council (BIRAC), IKP Knowledge Park (IKP), and Center for Cellular and Molecular Platforms (C-CAMP) are organizing a med-tech hackathon from 13th to 15th June, 2016, with a demo on 16th June, 2016 as part of the BIG Conclave.

The goal of the hackathon is to create functional prototypes and validate the same for innovative devices and diagnostics for non-communicable diseases (NCDs) to screen, detect and manage diabetes, cancer, and cardio vascular diseases and other including neurological disorders as well as Assistive devices.

Ten teams will be provided the prototyping facilities available at IKP-EDEN™ and C-CAMP to build their hacks.

**Hack Days:** 13th (1pm) - June 15th (3PM)

**Venue:** IKP-EDEN™, Koramangala Bangalore

**Selection of winners:** Final pitch to experts 15<sup>th</sup> June, 4PM at IKP-EDEN™

**Demo day:** 16th June 2016 at C-CAMP, Bangalore

**Team:** Teams with expertise in engineering, biomedical engineering, clinicians etc would be ideally suited for the hackathon.

Minimum team size: 3

Maximum team size: 5



## Awards & Other Perks

The **Three Winners** of the Hackathon will be given a platform to present their 'Hacks' at the prestigious BIRAC 2<sup>nd</sup> BIG Conclave at C-CAMP (on 16<sup>th</sup> June) which will have in the audience senior experts from the Government, Academia, Investors and at least 70 biotech startups providing excellent opportunity for networking.

All Hackathon teams can showcase their hacks at the 2<sup>nd</sup> BIRAC BIG Conclave on 16<sup>th</sup> June at C-CAMP, Bangalore as well as network with experts.

**Total Prize Money:** Total prize money of INR 2.0 lakhs distributed as one First place award of INR 1.0 lakh and Two awards of INR 50,000 each

**Scope of Innovations:** Diagnostics and Devices to screen, detect, and manage non communicable diseases (NCDs) such as diabetes, cancer, and cardiovascular diseases, neurological diseases and assistive devices (for mobility etc).

## How to apply?

To apply please visit the link & fill the online form: <http://birac.nic.in/hackathon.php>

## Application deadline:

Primary deadline: June 3<sup>rd</sup>, 2016, 11:59 PM (IST)

Secondary deadline: June 5<sup>th</sup>, 2016, 11:59 PM (IST)

**Eligibility criterion:** Principal Investigator should be Indian national, and must not have received any previous funding grant from BIRAC. Each team can apply with more than one idea, however, only one idea will be selected for the hackathon. Up to 10 teams will be selected to participate in the hackathon. If BIRAC receives 10 deserving applications by June 3<sup>rd</sup>, 2016, applications submitted after June 3<sup>rd</sup>, 2016 will not be considered for the hackathon.

**Selection Criteria:** Novelty in innovation, technical feasibility, credentials of team members, scalability of the solution, affordability to the end user, ability of team to demonstrate a prototype in 2 days

**Hackathon Consumables:** BIRAC will reimburse up to INR 10,000 per team for components, material, and consumables to be bought. Reimbursement will be made only upon submission of legitimate bills.



**Access to Instrumentation during Hackathon:** Applicants will be able to avail the wood and metal prototyping facilities, 3D printers, CNC Router, and Electronics lab at IKP-EDEN™, and the PDSM facilities and the PDSM and PCB Plotter at C-CAMP

**Travel and Accommodation:** BIRAC & its partners will provide accommodation to the participants for 13<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> night. BIRAC will reimburse travel for III tier AC fare (tatkal) for outstation participants.

## The Schedule

### 13<sup>th</sup> June @IKP-EDEN™

11:00 AM – 02:00PM: Lunch & Registrations at IKP-EDEN™

02:00PM- 02:30PM: Introduction by Ms. Deepanwita Chattopadhyay (MD & CEO IKP), Mr. Vikraman Venu Saranayan (COO IKP EDEN) & Dr Satya Dash (Head SPED, BIRAC)

02:30PM – 03:30 PM: Introduction to the teams and their ideas - Version 0

03:30 PM - 04:00 PM: Selected Speaker (Design thinking, User Centric Approach)

04:00 PM - 06:30 PM: Brainstorming and Design, vetting by mentors

06:30 PM - 07:00 PM: Coffee

07:00 PM - 09:00 PM: Build - Version 1, vetting by mentors

09:00PM-10:00PM: Dinner

### 14<sup>th</sup> June @IKP-EDEN™

08:00AM- 09:00AM: Breakfast

09:00 AM- 10:00 AM: Selected Speakers (Product Design for Med-Tech, Business Plan Case Study)

10:00 AM - 01:00 PM: Build - Version 2, vetting by mentors (Support team leaves to procure any additional material needed)

01:00 PM - 02:00 PM: Lunch

02:00 PM - 05:00PM: Build - Version 3

05:00PM- 06:30PM: Expert Speaker & Coffee

06:30PM- 09:00PM: Build Version 4



09:00PM-10:00PM: Dinner

10:00PM-11:00PM: Guided Practice Pitch by teams

### **15th June @IKP-EDEN™**

09:00 AM - 10:00 AM: Breakfast

10:00 AM - 11:00 AM: Selected Speakers (Case studies)  
(Support team leaves to procure any additional material needed)

11:00 AM - 01:00 PM: Build Version 6 (Final version), vetting by mentors

01:00 PM - 02:00 PM: Lunch

02:00 PM - 04:00 PM: Practice Pitch

04:00 PM - 07:30 PM: Final Pitch to Expert Panel

07:30PM: Close

### **16th June @ C-CAMP**

08:45 AM: Convene at C-CAMP, Jakkur Bangalore

09:00 AM - 1:00 PM: Showcase Hacks to the audience at **BIRAC 2<sup>nd</sup> BIG Conclave** at C-CAMP.

#### **Three winners of Hackathon Announced**

12:30PM: **Three winners of Hackathon** make 10min presentation of their ideas & hacks.

Rest of the Day: All teams participate in 2<sup>nd</sup> BIRAC BIG Conclave & Network

### **For further information on application contact:**

Dr Satya Prakash Dash (Head, Strategy Partnerships & Entrepreneurship Development, BIRAC)

Email: [sped.birac@gov.in]



## The Organizers

### **Biotechnology Industry Research Assistance Council (BIRAC) ([www.birac.nic.in](http://www.birac.nic.in))**

BIRAC is a not-for-profit Section 8, Schedule B, Public Sector Enterprise, set up by Department of Biotechnology (DBT), Government of India as an Interface Agency to strengthen and empower the emerging Biotech enterprise to undertake strategic research and innovation, addressing nationally relevant product development needs. BIRAC is an industry-academia interface and implements its mandate through a wide range of **impact initiatives**, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring **innovation excellence** to the biotech firms and make them globally competitive. BIRAC has funded close to 400 companies and 150 startups and entrepreneurs through multitudes of pioneering programmes such as BIG, SBIRI, BIPP and CRS amongst others.

### **IKP Knowledge Park, Hyderabad and Bangalore, India ([www.ikpknowledgepark.com](http://www.ikpknowledgepark.com))**

The mission of IKP Knowledge Park (IKP) is to create a world-class ecosystem for fostering leading-edge innovation in India. The Hyderabad campus was set up as a not-for-profit research park in 1999. IKP's hardware incubator and makerspace, IKP-EDEN has been operational since September 2015. Hitherto, IKP has supported over 200 R&D based companies from six countries, through provision of shared space and facilities, incubation, mentorship and funding.

### **Center for Cellular and Molecular Platforms, Bangalore, India ([www.ccamp.res.in](http://www.ccamp.res.in))**

Centre for Cellular and Molecular Platforms (C-CAMP), is a Dept. of Biotechnology (Govt. of India) initiative and a not for profit organization, that also is a member of the Bangalore Life Sciences Cluster (BLiSC). C-CAMP was established with the aim of enabling cutting-edge bio-science research and entrepreneurship, by: i) developing and making available state-of-the-art technologies and providing training on these technologies to academia and industry, ii) building a thriving ecosystem to stimulate innovation and promote bio-tech entrepreneurship in India.

As a part of its mandate to promote innovation and entrepreneurship, C-CAMP has created and fostered a vibrant life-science innovation ecosystem and entrepreneur-friendly culture. C-CAMP's entrepreneurial activities include a.) Bio-incubation - providing high-end laboratory space and infrastructure b.) Funding – through its partnership with BIRAC and c.) Mentorship Program – providing scientific and business mentorship. C-CAMP has so far supported 55 start-ups in this way of which 16 have been resident incubatees at C-CAMP and leveraged the high-end infrastructure and expertise on campus.