



CAMBRIDGE INSTITUTE OF TECHNOLOGY, RANCHI

CIT Incubation Centre “CIT-RISE”
(Ready for Innovation, Start-ups and Entrepreneurship)
A Business Incubator

INTERNAL HACKATHON FOR SMART INDIA HACKATHON 2020 (Sponsored by C.I.T. Alumni Association)



Smart India Hackathon (SIH) is India’s biggest open innovation model. It aims to provide a competitive environment for putting forth novel commercial ideas and successfully developing a commercial prototype for better future. An Internal Hackathon for SIH-2020 (Mandatory Round) will be organised in our institute premises on 18th January, 2020. Applications are invited from the B. Tech/M-Tech/MBA students of our institute under these editions:

1. *Software Edition*
2. *Hardware Edition*

Note: Applicants are requested to submit ideas based on the problem statements/Innovative Idea Group given in the website of SIH-2020.

BENEFITS OF INTERNAL SIH-2020

1. Chance to win attractive cash prizes worth Rs. 14000/- and ensured participation certificates.
2. Participation in CISCO DEVNET Contest for winning cool prizes and avails it other benefits.
3. Chance to get nominated for SIH- 2020.
4. Chance to win SIH-2020 under different categories in both editions.
5. Chance to get financial support of upto Rs. 15 Lakhs* per idea/per team through our institute Incubation Centre “CIT-RISE” funded by Ministry of MSME, Govt. of India.

HIGHLIGHTS

- ✓ Post the internal Hackathon, a maximum of 7 teams (5 *Software* + 2 *Hardware*) will be nominated to apply for SIH-2020.

- ✓ The Winner, 1st Runner Up and 2nd Runner Up teams will be awarded with cash prize of Rs 5000/-, Rs. 3000/- and Rs. 2000/- respectively. Additionally, 4 more teams will be awarded with Rs. 1000/- each. However, individual participation certificates will be awarded to all the participants.
- ✓ The team shortlisted in SIH 2020 will get a chance of their project funded from our institute/alumni association.
- ✓ All the winners of SIH-2020 will get attractive cash prizes from SIH-2020 Organizers.
- ✓ The top 10 teams including the Internal SIH-2020 winners will get a chance of getting incubated at our institute Incubation Centre “CIT-RISE”.

FACULTY COORDINATORS

1. **Prof. K P Dutta (ECE)**
Professor In-charge, T&P
2. **Prof. Tapas Kumar**
Asst. Professor, EEE & SPOC-1, SIH
3. **Prof. Aurobindo Behera**
Asst. Professor, EEE & SPOC-2, SIH

IMPORTANT LINKS

- + All about SIH-2020 can be viewed here:
<https://www.sih.gov.in/about>
- + Cisco Devnet Contest can be viewed here:
<http://cs.co/sih202002>
- + All Problem Statements of SIH-2020 can be viewed here:
<https://www.sih.gov.in/sih2020PS>

* *Terms and conditions applied.*

Idea Submission Process for Smart India Hackathon 2020

How do I register for Smart India Hackathon 2020?

***We strongly encourage all participating team members to begin their team registration process by downloading **Smart India Hackathon SIH App** from Google Play Store.

Please note:

- 1. Please note that the registration on SIH App and on our portal sih.gov.in are separate and both must be completed.**
- 2. SIH2020 has undergone a major change and idea submission process is new this year. For details, please go through new Idea submission process below**

What is the new idea submission process of SIH2020?

Please read the below process and understand it carefully.

- Once problem statements are unveiled to students on the portal, they are supposed to form a team of 6 members including at least one female member as mandatory.
- The college SPOC will first register on the SIH portal. SPOCs must upload their college authorization letter while completing the registration formalities.
- The teams can come up with their own ideas against the problem statements and submit them to the nominated faculty or SPOC of their own college.
- Colleges are recommended to hold **Internal Hackathons** (hackathon competitions at individual college level) for teams that have submitted ideas. These internal hackathons would be held in the month of Dec 2019 and Jan 2020.
- Each college SPOC will nominate total top 7 teams (selected from the internal hackathon of their individual colleges) that are eligible to participate in SIH2020. A college cannot nominate more than 7 teams under any circumstances. 7 teams would comprise of top 5 software teams and top 2 hardware teams (including Student Innovation category) from each college.
- The nominated College SPOC is then needed to enter the details of top 7 selected teams (5 teams for Software edition and 2 teams for Hardware edition) on the SIH portal. The details include:
 - Team name
 - Chosen problem statement
 - Idea title
 - Idea description
 - Idea ppt PDF (in given format)
 - College authorization letter PDF (in given format)
 - Names of team leader and the rest 5 team members
 - Gender of team leader and the rest 5 team members
 - Email id of all the team members along with the team leader
 - Mobile no. of all the team members along with the team leader

*** It is recommended that the College SPOC enters the details for a nominated team in presence of respective team leader. Team & idea details once entered cannot be altered. College SPOC will be responsible to ensure that all the data entered by him/ her is accurate.

- Along with this, the SPOC would also need to add some details of internal hackathon held by the institute such as details of judges for internal hackathon and few photos/videos of the inter campus hackathon.
- **Important Point:** Once the SPOC enters details, each team leader will receive a notification mail and sms. A team leader would be able to ONLY view the SIH portal till this point.
- The team leaders of the nominated 7 teams from each college would now get an email for mobile and email verification and password to login on the portal to view the details pertaining to the idea submitted by the SPOC. Please note, the team leaders can only view the submissions made by the College SPOC and not edit anything. The college SPOC is expected to enter the correct details of each 7 teams that get nominated.

Sample of College Authority letter for Teams

Sub: Smart India Hackathon 2020 – Nomination

I am pleased to nominate the below team from our college to participate in Smart India Hackathon 2020. AICTE Application No/ UGC Registration No for our college is _____.

Team : < Team Name >

	Name	Gender (M/F)	Email id	Mobile no.
Team Leader				
Team Member				

(Instructions for colleges:

Issue **One Consent letter per team. Please follow the college authorization letter format given here. If the format is changed, the team is likely to get disqualified.*

***Please remove these 2 instruction lines in the bracket before saving and uploading the form)*

Sincerely,

< Principal's Name >

Sign/-

The Principal < College Stamp >

- The letter must be issued on college letterhead only. It must clearly state name of the team and all 6 team members and must be duly signed by college principal/ dean/ institute director and bear the college seal.
- The team name should be unique and MUST NOT contain the name of your institute in any form.

How should the students form a team?

- All team members should be from same college; no inter-college teams are allowed. However, members from different branches of the same college/ institute are encouraged to form a team.
- Each team would mandatorily comprise of 6 members including the team leader.
- Each team must have **AT LEAST ONE FEMALE TEAM MEMBER.**
- As the software edition of the hackathon is digital product development competition, majority of the team members MUST be well versed with programming skills. For the hardware edition, we encourage multi-disciplinary teams – which means your team should have a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers, etc.
- All these teams will be participating in the recommended Internal hackathons

Idea nomination process

Please note:

- **The top 7 teams (5 teams for Software edition and 2 teams for Hardware edition)** nominations (from internal hackathon) must be submitted on the SIH portal **by the College SPOC only.**
- **SPOC registration will start from 1st December 2019**
- The last date for **team nomination and idea submission** by College SPOC on SIH portal will be **25th January 2020. This deadline will not be extended under any circumstances and no exceptions will be made.**
- College SPOC must login on sih.gov.in using his/ her credentials and fill out the details of 7 nominated teams.
- With this new system, a team will not be able to make multiple idea submissions.

What's the selection criteria?

Post Idea submission process, the ideas will be evaluated by experts.

- Evaluation criteria will include novelty of the idea, complexity, clarity and details in the prescribed format, feasibility, practicability, sustainability, scale of impact, user experience and potential for future work progression.

When/where will the shortlisted ideas be announced?

- Notification about selected teams will be put up on our portal and will also be sent to their respective nodal centers
- One may also keep a track of all the latest announcements and updates about the initiative through SIH App.
- Be available for meetings, A-view sessions and trainings during the preparation phase; you will be notified about them in advance.

What are Mentor registration formalities? When will they begin?

- For Software Edition, after teams are shortlisted, each team will have the option of selecting 2 mentors from the industry or academia. A mentor is expected to have at least 4+ years of Industry/Academic experience to qualify as a mentor. Each team of 6 team members should have 2 mentors.
- For Hardware Edition, 2-3 Industry mentors are encouraged – specifically those with over 5 years of hands on experience in hardware industry. Each team of 6 team members should have 2 mentors.
- Mentor registration for shortlisted teams would open post evaluation round. Team leaders would be emailed a link to register details of their chosen mentors

General responsibilities of Mentor

- To mentor and guide teams via Skype/phone/video-chat or in person before the grand finale to help convert students' ideas into a working prototype.
- To provide guidance and support to their allocated teams. Mentors along with participating students work together as a team during the grand finale
- To work collaboratively with the allotted student team during the SIH Grand Finale to build a working prototype.
- Out-station travel to the hackathon venue may be necessary to participate in the Grand Finale.
- The travel and accommodation of students and their mentors will be taken care by SIH2020 organizers.

General information regarding the Grand Finale

- If a team is selected for the final Hackathon, members will need to travel to the assigned nodal center which can be anywhere in India.
- Shortlisted teams (6 students & 2 mentors) traveling for the grand finale will be eligible to receive reimbursement for to & from journey via 2S (2nd Class sleeper) railway fare. The reimbursement amount will be paid at the grand finale nodal centers upon producing copies of train tickets and completing relevant forms. The arrangement for booking of train tickets is responsibility of teams themselves or their institutes.
- College faculty members traveling with teams for the grand finale are not eligible for any reimbursement of travel expenses.
- The nodal centers will be arranging for accommodation of teams during the grand finale.
- Each college/institute will issue a stamped photo ID to each member of the teams selected for the finale
- College photo ID is mandatory for participating in the finale.

Problem statements and Prizes to be won

- SIH2020 brings you problem statements from leading public and private organizations, union ministries, state governments and NGOs in India.
- There would be ONE single winning team for every problem statement posted on the portal. The prize money will be given by the collaborating ministry/ industry **ONLY IF** that organization likes the idea of the winning team. However, it is NOT mandatory to announce only one winning team

against each problem statement. If the collaborating ministry/ industry concludes that none of the ideas are up-to-the-mark, they may not announce any winning team at the finale.

- Amount of prize money to be awarded to each winning team is Rs. 100000/- per problem statement.
- If there is a tie between two or more teams, the final decision of the prize money distribution will be taken by the problem statement creator only and once the decision is made, it won't be changed further.
- Ideas submitted under Student Innovation category might have different prize money.
- Teams are also encouraged to think out-of-the-box and provide creative solutions to themes under 'Students' Innovation' category.

Miscellaneous Information

- Intellectual property (IP) of the winning idea would be split equally between industry that gave the problem statements and the winning team or will be decided on the mutual agreement.
- Selected ideas will be supported to be developed further so that industries/ government institutions will be able to utilize these ideas; more efforts beyond the finale are required from the selected teams thereafter.