

## IRD Students Startup Action & Discover and Learn 1-2-3-4 (Call-2019)

Proposals are invited from team of students for IRD Student Startup Action and Discover & Learn (1-2-3-4).

The objective of this initiative is to enhance research aptitude among undergraduate, & graduate students and increase the component of 'learning by research'. Involvement of students in the below mentioned thrust areas at a very early stage of their stay at the institute and working jointly with senior students & Industry will expose the students to the excitement of research. In addition, continuity of research project with a particular objective is expected to result in meaningful research output, which will add to profile of the students.

Project proposals are invited in the below mentioned thrust areas.

<b>Industry</b>	<b>Area</b>
CERCA <a href="http://cerca.iitd.ac.in/">http://cerca.iitd.ac.in/</a>	<ol style="list-style-type: none"><li>1) Clean air</li><li>2) Electric vehicles</li></ol>
Nokia <a href="https://www.nokia.com/networks/">https://www.nokia.com/networks/</a>	<ol style="list-style-type: none"><li>1) Artificial Intelligence</li><li>2) Machine Learning</li><li>3) Robotics</li><li>4) Cyber Security</li><li>5) Internet of Things</li></ol>
Renew Power <a href="https://renewpower.in/">https://renewpower.in/</a>	<ol style="list-style-type: none"><li>1) Renewable Energy</li><li>2) Solar Energy &amp; Wind Energy</li></ol>
Ornate Solar <a href="https://www.ornatesolar.com/">https://www.ornatesolar.com/</a>	<ol style="list-style-type: none"><li>1) Thermal Management of Lithium Ion Based Battery Packs</li><li>2) Development of a Universal Battery Management System</li><li>3) Innovative heat transfer &amp; efficient packing of Electric Vehicle Batteries</li></ol>

The students can also submit project in other areas for IRD funding of Rs. 2 Lakh per year.

**IRD Student Startup Action:** A group of students preferably in the final year of the B.Tech, M.Sc, M.Tech or Dual degree programme can formulate a proposal. The selected teams will be given a seed grant of Rs. 2 Lakhs per year from IRD and additionally Rs. 2 Lakhs from respective Industry. The project will be evaluated yearly. IP and other output generated by the start-up will be owned by the start - up team with 5 % equity for the institute. The start-up activity will be facilitated by a faculty member. The faculty mentor and students who are already part of a startup action project in the previous calls will not be considered. There is further scope for incubation of the Start-up in Technology Business Incubator (TBI) Program of FITT-IITD.

**Discover & Learn:** A group of 4 students each from 1st, 2nd, 3rd, 4th and 5th year of ongoing B.Tech. and M.Tech. programme (5th year for Dual degree/Integrated degree) may propose the project under the guidance of a faculty mentor. As the 4th/5th year student will be graduating/post graduating respectively, an additional student from the 1st year can be co-opted every year so that the strength of the team remains unchanged. Both IRD and respective Industry will provide each up to Rs. 2 Lakhs per year to the faculty mentor for purchase of consumables etc. Depending upon the progress and performance, the duration of the project may go up to 4 to 5 years. The projects will be evaluated yearly. The faculty mentors and students who are already part of a project in the previous calls will not be considered. Addition and deletion of students be done with prior permission of mentor and IRD in new academic calendar year.

The closing date for proposal submission is 6<sup>th</sup> September, 2019 (Friday).

The proposal in the given format should be submitted to Associate Dean (R&D) & R&D Coordinator by email latest by 6<sup>th</sup> September, 2019 (Friday).

[assocdeanrnd@admin.iitd.ac.in](mailto:assocdeanrnd@admin.iitd.ac.in) & [rnd\\_coordinator\\_aht@ird.iitd.ac.in](mailto:rnd_coordinator_aht@ird.iitd.ac.in)

**IRD Discover & Learn 1-2-3-4 Scheme for B.Tech. & M.Tech. Students  
Project Proposal**

**Applicant Details**

Description	Entry No.	Name	Department	Signature
5 <sup>th</sup> Year Student				
4 <sup>th</sup> Year Student				
3 <sup>rd</sup> Year Student				
2 <sup>nd</sup> Year Student				
1 <sup>st</sup> Year Student				

**Faculty Mentors**

Type of Mentor	E. Code	Name	Department	Signature
Mentor				
Co-Mentor				

**Project Title**

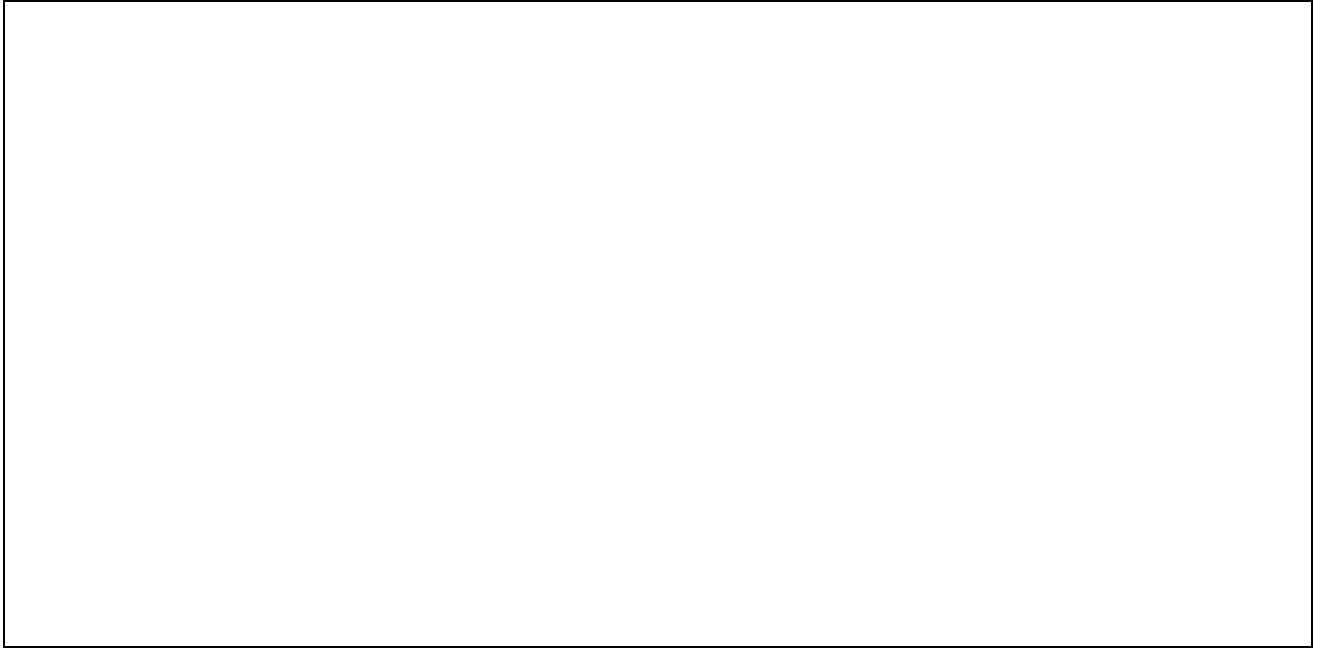
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**Objectives**

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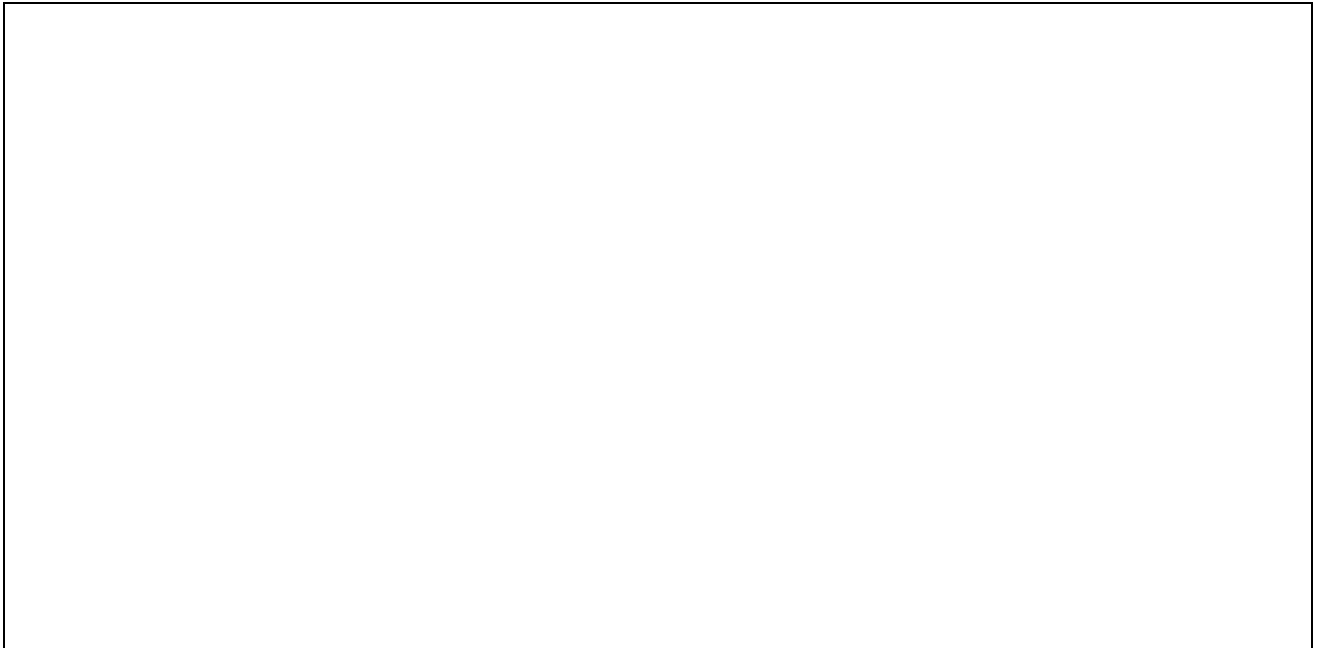
**(Max. 500 Characters)**

**Importance of the Project**



**(Max. 750 Characters)**

**Background**



**(Max. 1000 Characters)**

**Relevant References**

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(Max. 500 Characters)

**Work Plan**

<b>Year 1</b>	
<b>Year2</b>	
<b>Year 3</b>	
<b>Year 4</b>	

(Max. 500 Characters for each year)

**Expected Outcome of the Project**

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(Max. 500 Characters)

**Budget Details (Max. Budget Per Year Rs. 2 Lacs)**

Budget Head	Year 1	Year 2	Year 3	Year 4	Total
Contingency					
Consumables					
Travel					
<b>TOTAL</b>					

**Budget Justification, if any**

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(Max. 300 Characters)

**Recommendations/Comments From Faculty Mentor(s)**

**Name :**

**Signature :**

**(Max. 500 Characters)**

**Approval From Head of the Dept./Centre/School of Faculty Mentor**

**Name :**

**Department :**

**Signature :**



## IRD Student Startup Action Proposal

### Applicant(s) Details

Entry No.	Name	Department	Signature

Add more rows, if required

### Faculty Mentors

	E. Code	Name	Department	Signature
Mentor				
Co-Mentor				

### Startup Title

### General Area of the Activity

### Business Idea

**(Max. 2000 Characters)**

**Product/Service Description**

**(Max. 700 Characters)**

**Main Objectives To Be Achieved in First Year**

**(Max. 500 Characters)**

**Commercial Potential of the Product/Service**

**(Max. 1500 Characters)**

**Capabilities and Expertise of Team Members**

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**(Max. 500 Characters)**

**Budget Details (Max. Rs. 2 Lacs)**

<b>Budget Head</b>	<b>Amount (Rs.)</b>
Contingency	
Consumables	
Any other budget head	
<b>TOTAL</b>	

**Budget Justification, if any**

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**(Max. 300 Characters)**

**Recommendations/Comments From Faculty Mentor(s)**

**Name :**

**Signature :**

**(Max. 500 Characters)**

**Approval From Head of the Dept./Centre/School of Faculty Mentor**

**Name :**

**Department :**

**Signature :**