



# राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर National Institute of Technology Silchar

(राष्ट्रीय महत्व का संस्थान)

(An Institute of National Importance)

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## Call for Project Proposals

for

## ***Anveshan: Student Research Convention-NIT Silchar***

### 1. Preamble

Spirit of inquiry, creativity and innovativeness are some of the natural endowments bestowed upon human beings, which are the keys to transformation of life. These factors, when manifested in the form of research, open new frontiers of knowledge, which is instrumental for all forms of development. Perhaps, this is the reason for which research is recognized as one of the core functions of the universities/institutions of higher learning and the universities have been rendering this responsibility with utmost diligence. India's noteworthy progress in the field of Information Technology, Energy, Space, etc., are the outcome of consistent endeavour of our intellectual resources. India, currently producing a solid core of knowledge workers in tertiary, scientific and technical education and its economy and industrial sector set for an unparalleled growth, is poised to become the future global knowledge hub. However, the onus lies largely on our Higher Education system and particularly on our universities. But, as of late, research has become a subservient component in the university functioning. Resource constraints, lack of commitment, proper incentives etc., are the impediments that are affecting the quality of research in our institutions of higher education. Other important factors for the deterioration of the quality of the research are the absence of adequate training and other capacity building endeavour in our system, this has restricted students' creativity only to rote memory. On the contrary, their potential should be nurtured and harnessed for the benefit of the society. The current boom in Indian economy signalling an era of transformation should provide ample opportunity for success to innovative young brans to become trend setters and role models of a vibrant India.

### 2. Objectives:

- To identify young talents with research aptitude and interest to take up research as a career option
- To promote the talent in research throughout the country.
- To nurture the talent through specialized training and education in some of the nationally and internationally reputed premier institutions of higher learning in the country.
- To augment financial and physical resources through collaboration with different sponsors for supporting education and training of the young researchers.
- To provide proper incentives to enhance the skill of potential students.
- To initiate an intensive research culture in a selected group of institutions.

**3. Scope of Call:** Proposal should explore innovative and feasible ideas which highlight the challenges faced by current India and attempt to provide a cost effective way to address them. The projects should aim to provide creative solutions to problems faced: new and old.

**Areas:** The areas/fields in which Projects (Individual and Group Projects) are invited:

- Agriculture
- Basic Sciences
- Engineering & Technology
- Health Sciences and Allied Subjects, Pharmacy, Nutrition, etc.
- Social Sciences, Humanities, Commerce and Law (Objective and Result Oriented Projects)

**Eligibility:**

- Participants must be bona fide fulltime students of the institute from Undergraduate to Doctoral Degree level.
- Participants must be below the age of 30

**Project Cost:** Participants are required to include a Budget Plan in their proposal. The plan must include budget for minor equipment needed/consumables/travel/contingencies.

**Project duration:** 1 year maximum

**4. Awards and Recognitions:**

- **A platform to present new ideas to peers and experts at institutional level.**
- **A chance to present at the Zonal level of Anveshan**  
The 5 selected projects will be given a chance to be presented at the East Zone Convention of Anveshan: Student Research Convention to be held on February 19-20, 2019 at Central University of Jharkhand, Ranchi.
- Participation in the Zonal level convention may lead to an opportunity to participate in the National Level convention. Participants successful in the National Level Convention will be awarded gold medal.

**5. Important Dates**

Submission of Proposal	: 25.11.2018
Announcement of Shortlisted Projects	: 30.11.2018
Registration	: 04.12.2018
Event	: 07.12.2018-09.12.2018

## **6. Criteria for evaluation**

All projects will be evaluated on the basis of the following criteria.

<i>Criteria</i>	<i>Weightage</i>
Scientific Thoughts and Principles	20
Creativity	20
Thoroughness	10
Skill	10
Relevance	20
Cost Effectiveness	10
Teamwork	10

The final selection of projects will be based on the cumulative weightage of all of the criteria.

## **7. Proposal Format and Submission:**

A format for the project proposal has been provided.

Participants need to submit the proposal as follows:

1. A hard copy to the Convenor of Anveshan: Student Research Convention-NIT Silchar.
2. A softcopy in pdf format to be sent to [anveshan.nits@gmail.com](mailto:anveshan.nits@gmail.com)

### **Contact Details:**

Dr. Ranjith G. Nair

Convenor

Anveshan: Student Research Convention-NIT Silchar

Email: [anveshan.nits@gmail.com](mailto:anveshan.nits@gmail.com)

Mobile no.: 9401519326

## **Guidelines for the project proposal**

### **1. Eligibility for participation:**

- Participants must be bona fide fulltime students of the institute from Undergraduate to Doctoral Degree level.
- Participants must be below the age of 30.

### **2. Areas/Fields:**

- Agriculture
- Basic Sciences
- Engineering and Technology
- Health Sciences and Allied subjects, Pharmacy, Nutrition etc.
- Social Sciences, Humanities, Commerce and Law (Objective and Result Oriented Projects)

**Projects can be Individual or Group Projects.**

**In case of Group Projects, only three members are allowed [one principal investigator and two major contributors]**

### **3. Type of project**

Projects in the above mentioned areas must be original and must have undergone some groundwork/exploration in order to show its feasibility and impact.

**A format for the project proposal has been attached. The proposal must be written on A4 size, Times New Roman, normal font, font size of 12, justified and line spacing of 1.5**

### **4. Criteria for evaluation of projects**

All projects will be evaluated on the basis of the following criteria.

<i>Criteria</i>	<i>Weightage</i>
Scientific Thoughts and Principles	20
Creativity	20
Thoroughness	10
Skill	10
Relevance	20
Cost Effectiveness	10
Teamwork	10

The final selection of projects will be based on the cumulative weightage of all of the criteria.

### **5. The shortlisted participants will be required to present the projects in front of a panel of experts.**

The presentation can be in the form of live demonstrations/models/posters/podium (oral) presentation.

**FORMAT FOR SUBMISSION OF PROJECT PROPOSALS**  
(TO BE FILLED BY APPLICANT)

**A. IDENTIFICATION**

1. Project title

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2. Abstract (500 words)

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Key Words .....

4. Broad Area (Tick appropriate one)

- i. Agriculture
- ii. Basic Sciences
- iii. Engineering and Technology
- iv. Health Sciences and Allied subjects, Pharmacy, Nutrition etc.
- v. Social Sciences, Humanities, Commerce and Law (Objective and Result Oriented Projects)

4. Approximate Project Duration: (number of months)

5. Approximate Cost:

6. Principal Investigator:

6.1 Name:

6.2 Department:

6.3 Scholar Number:

6.4 Organisation/Institution Name:

6.5 Address (Including Telephone, E-mail) Pin:

6.6 Date of Birth:

6.7 Sex (M/F):

In the case of Group Project

7. Major Contributor 1:

7.1 Name:

7.2 Department:

7.3 Scholar Number:

7.4 Organisation/Inst. Name:

7.5 Address: (Including Telephone, E-mail) Pin:

7.6 Date of Birth:

7.7 Sex (M/F):

## 8. Major Contributor 2:

8.1 Name:

8.2 Department:

8.3 Scholar Number:

8.4 Organisation/Inst. Name:

8.5 Address: (Including Telephone, E-mail) Pin:

8.6 Date of Birth:

8.7 Sex (M/F):

## **B. TECHNICAL DETAILS**

### **1. Background (max 1500 words)**

1.1 Description of problem

1.2 Review of work already done

1.3 Rationale for taking up the project

1.4 Relevance to current issues.

### **2. Challenge & Constraints (max 500 words)**

Please identify strengths and weaknesses of the implementers vis-à-vis current project in terms of technical expertise, team building, past record etc. Also list the perceived opportunities and threats and describe how PI/Organisation proposes to capitalise on them or avert them.

### **3. Description of Proposal (max 1000 words)**

3.1 Objectives of the project. (Brief and to the point)

3.2 Preliminary Investigations done by organisation. (if any )

3.4 Linkage with S&T Instts./NGO,s/resource persons/ R&D organisation/ Industry for technical backup if any.

3.5 Other organisations working in this area

3.6 Methodology detailing stepwise activities and sub-activities.

### **4. Work Plan (max 2000 words)**

Phase-wise plan of action upto post project activities detailing time schedule  
Milestones may clearly be indicated. PERT/GANTT chart may be attached.

### **5. Outcome of the Project (max 500 words)**

Attempt may be made to quantify output in measurable parameters.

### **6. Likely Impact (Please attempt to quantify)**

### **7. Suggested Post Project Activities**

Like scope commercialization/ IPR/ Research Publications etc.

### **C. BUDGET ESTIMATES**

Item	Budget (in Rupees)
A. Recurring	
i. Consumables	
ii. Travel	
iii. Contingencies	
iv. Other Costs	
B. Non-Recurring	
i. Small Equipments	
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Grand Total (A + B)	

**Please provide justification for each head of expenditure (about 100 words for each)**

### **D. DECLARATION**

I declare that this this research proposal is my own idea and it has not been submitted anywhere for consideration.

Signature(s) of PI/Group Participants.

Date:

Place: