



# Indian National Academy of Engineering

Unit No.604-609, SPAZE, I Tech Park, 6th Floor, Tower A, Sector 49, Sohna Road,  
Gurgaon – 122002 (India), Phone : (91) – 0124 – 4239480, Fax: (91) – 0124 – 4239481  
Email: inaehq@inae.in, Website: www.inae.in

**Dr. BN Suresh, FNAE, MAeSI, MASI, MIAA, MSSI**  
**Vice-President (Awards and Events)**

Vikram Sarabhai Distinguished Professor,  
ISRO Headquarters, Antariksh Bhawan,  
New BEL Road, Bangalore-560 0231  
Tele-080-23417294, Fax : 080-23415409  
Email : byranasuresh@gmail.com

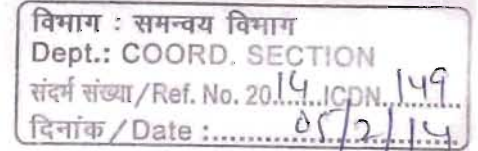
Ref : INAE/201/IP

To

IITs / IISc. / NITs /  
Engineering Institutions/ Colleges/Directors of Technical  
Education in States/Vice-Chancellors of Technological Universities/  
Regional Offices of AICTE and NITs



January 21, 2014



## Sub: Innovative Student Projects Award 2014

Dear Colleague,

The Indian National Academy of Engineering (INAE), established in 1987, is a 'Peer' body of some of the most distinguished engineers in India and abroad. One of the objectives of the Academy is to encourage inventions, investigations and research to promote their applications for development of national economy.

The Academy had instituted the subject award in 1998 to identify innovative and creative research projects undertaken by the students at three levels, BE/B.Tech, ME/M.Tech and Ph.D in Engineering Institutions. The Scheme particularly encourages joint projects among Industry, Research Laboratories and Academic Institutions. The endeavour is meant to encourage young talent and accord recognition and incentives to them. The response to the scheme during the last fourteen years has been enthusiastic.

I have pleasure in forwarding to you sufficient number of brochures giving the details of the Scheme. The eligibility criteria is as follows:

- (i) B.E./B.Tech projects completed upto June 30 during the academic year 2013-2014. Only Final Year (4th year) projects of students who will be completing their B.E./B.Tech degree requirements by June 30, 2014 are eligible to be nominated for the subject award
- (ii) M.E./M.Tech theses examined upto June 30, 2014.
- (iii) Ph.D. theses examined and accepted/recommended for Award upto May 31, 2014

**It is compulsory that Degree / Provisional Degree Certificate must accompany the nomination proforma.**

We request you to sponsor one nomination for projects/theses in each of the major engineering disciplines at the above three levels. The nominations are to be sent on A-4 size paper (hard and soft copy) in the prescribed format given in the enclosed Brochure. The last date of receipt of nominations is **July 7, 2014.**

I shall appreciate it very much if this matter can receive your personal attention.

With best wishes,

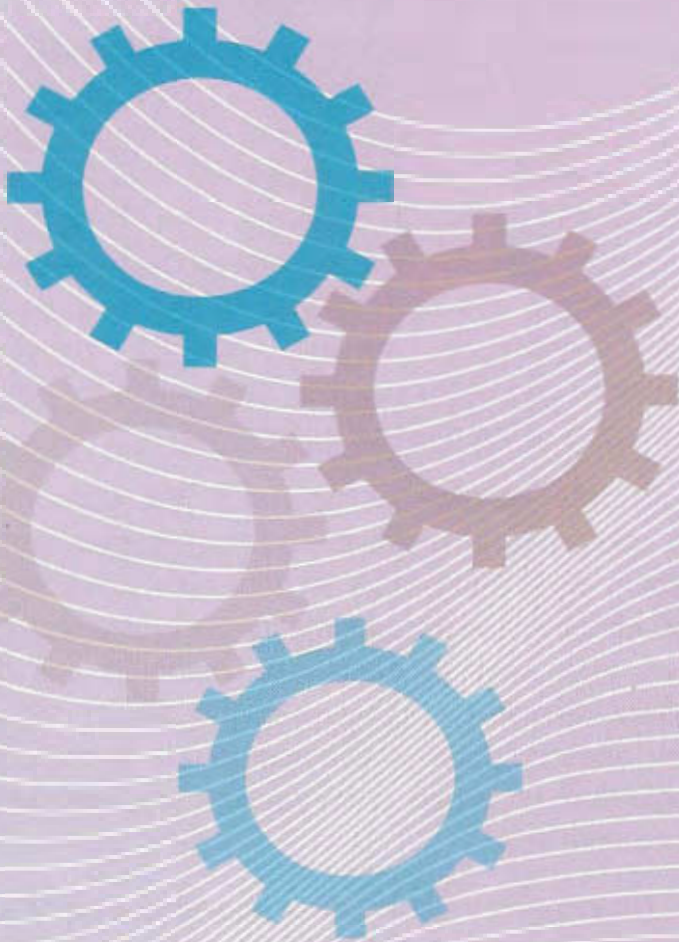
Encl: As above.

Pls. circulate to all  
faculty.

Yours sincerely,

(BN Suresh)

# Innovative Student Projects Award – 2014



**Indian National Academy of Engineering**

## INNOVATIVE STUDENT PROJECTS AWARD – 2014

### Introduction

The Indian National Academy of Engineering (INAE), established in 1987, is a 'Peer' body of some of the most distinguished engineers in India and abroad. The salient objects of the Academy are to promote the advancement of and excellence in the practice of engineering and technology and the related science disciplines and their application to problems of national importance. The Academy also aims at presenting research and development activities in engineering at academic and professional forums in India and abroad. INAE encourages inventions, scientific investigations and research, and promotes their application for development of all sectors of the national economy.

In order to provide impetus to the economic growth of the country and its development, it is important to promote leading edge indigenous technologies which are innovative, cost effective and appropriate for our environment. Therefore, there is a need to encourage research and development culture amongst engineers during the formative years of their undergraduate and postgraduate training, so that they begin their professional career well prepared with ideas and innovative skills.

The Academy instituted the above scheme of Awards and is implementing it since 1998, to identify innovative and creative research projects undertaken by the students and scholars in the engineering institutions, and to give an early recognition and incentives to them. The Academy firmly believes that an early recognition of merit and talent is important which can mark the beginning of a brilliant career.

### Objectives

- ★ to encourage young engineers to engage themselves in industry oriented research.
- ★ to promote joint projects among Industry, Research Laboratories and Academic Institutions.
- ★ to induce Industry to take up further development of the recognized projects, which may ultimately become new and innovative industrial processes or products and may give first-in-the market advantage.

### Scope

A database of Engineering Institutions in the country has been established by INAE covering Government and Private as well as Defence Services Technical Institutions. One best project/thesis in each of the major engineering disciplines at the three levels, viz., Doctoral, Master's and Bachelor recommended by the Heads of various Engineering Institutions / Colleges will be evaluated for their innovative potential by an INAE Selection Committee comprising of experts from each major field of engineering. The Industry and R&D Establishments would be approached with the award winning projects for their further development for industrial application or conversion into industrial processes or products.

### Call for Nominations

One nomination for projects/theses in each of the major engineering disciplines at the three levels, viz., Doctoral, Master's and Bachelor are invited from Deans/Heads of Engineering College/Departments for assessing their innovative potential and intrinsic merit. The nominations are to be sent on A-4 size paper in the prescribed format given in

the brochure. (Ink signed copy of the nominations are to be sent, in case the same has been downloaded from INAE website). A CD containing a soft copy of the same be also sent in MS Word along with the hard copy of the Proforma.

The nominations must be sent by Deans/Heads of Engineering College where the candidate has carried out his project/thesis and not through the organization where the candidate is presently working.

### **Eligibility**

Potentially innovative projects/theses are assessed at three levels, viz., B.E./B.Tech, M.E./M.Tech and Ph.D. Nominations for the awards 2014 will be accepted by the Academy according to the following eligibility requirement.

- (i) B.E./B.Tech projects completed upto June 30 during the academic year 2013-2014. Only Final Year (4th year) projects of students who will be completing their B.E./B.Tech degree requirements by June 30, 2014 are eligible to be nominated for the subject award
- (ii) M.E./M.Tech theses examined upto June 30, 2014.
- (iii) Ph.D. theses examined and accepted/recommended for Award upto May 31, 2014.

***It is compulsory that Degree / Provisional Degree Certificate must accompany the nomination proforma.***

### **Last Date for Nominations**

The last date of the receipt of nomination is July 7, 2014. Subsequently, when requested by the Academy, the Institution / College should be prepared to furnish copies of theses/projects along with relevant documents at a short notice.

### **Awards**

The Award shall comprise a certificate and Rs. 10,000/- in cash to each team member of the selected project, subject to a maximum of four team members.

### **Presentation of the work of the Nominee**

The short-listed nominees will be invited to make a twenty minutes presentation of their work before a Steering Committee of INAE Council on dates to be announced later. The candidates are advised to restrict the number of projections of their presentations to about TEN and suitably organize them with appropriate figures and font sizes for effective communication / interaction with the Committee in the time specified. The first projection should give a brief C.V. of the candidate. Power-point presentation is preferred.

### **Forwarding of Nominations**

The nominations should be mailed to :

Executive Director,  
Indian National Academy of Engineering,  
6th Floor, Unit No. 604-609,  
SPAZE, I-Tech Park, Tower A,  
Sector 49, Sohna Road,  
Gurgaon - 122002

Tel : 0124 - 4239480  
Fax : 0124 - 4239481  
Email : [inaehq@inae.in](mailto:inaehq@inae.in)  
Website : <http://www.inae.in>

**INNOVATIVE STUDENT PROJECTS AWARD – 2014**  
**Proforma for Nomination**

*(Kindly do not send thesis/project report along with Proforma)*

1. Name of the Institution :
2. Postal address of the Institution :
3. Telephone, fax and email of the Institution :
4. Name & contact address of the nominee(s) :

Address (Office)	(Residential)
.....	.....
.....	.....
.....	.....

Telephone : _____	Telephone : _____
Fax : _____	Fax : _____
Email : _____	Email : _____
	Mobile: _____

5. Current Designation :
6. (a) Title of the Project/Thesis :  
(b) Tick (✓) Project/Thesis level :  
Doctoral ( ) Master's ( ) Bachelor levels ( )  
(c) Date of the first registration  
(for Ph.D. and M.E./M.Tech only)  
(d) Date of examination of the project / thesis  
(e) A copy of Degree / Provisional Degree Certificate  
must accompany the nomination proforma.
7. Engineering Discipline (Please specify):  
*(Civil Engineering; Computer Engineering & Information Technology; Mechanical Engg; Chemical Engg; Electrical Engg; Electronics & Communication Engg; Aerospace Engg; Mining, Metallurgical & Materials Engineering; Energy Engineering; and Interdisciplinary Engg & Special Fields).*
8. Engineering College/Institution where Project/Thesis work carried out :
9. Awards / Academic Recognitions to the nominee, if any :

10. Contact address of the Supervisor / Guide, with telephone, Mobile, fax, email, etc.
11. Title of the Project/Thesis
12. Write in less than 50 words the innovative part of your work  
Please note that each project/thesis shall be assessed on the basis of one or more of the following specific attributes. Response to each attribute should be given separately, distinctly and concisely limiting it to the number of words indicated in the proforma. Any attribute, if not applicable, should be given a response by recording 'N.A.'

**(a) PROFORMA FOR Ph.D. / M.E./M.TECH THESIS**

- (i) If a new theory or a new postulate has been developed, describe it in **50 to 100 words**.
- (ii) If an existing theory has been modified, improved or corrected, make a statement **not exceeding 50 words**.
- (iii) If an existing theory or postulate has been proved wrong, make a statement **not exceeding 30 words**.
- (iv) If the research opens a new area (not just an extension of the research reported in the literature), make a statement **not exceeding 30 words**.
- (v) If the research can lead to a break-through technology, write a note **not exceeding 30 words**.
- (vi) If the research outcome has a potential for patent, describe it in **upto 50 words**.
- (vii) If the research outcome has a potential for licensing a technology, describe it in **upto 50 words**.
- (viii) List the papers communicated or published from the thesis work in
  - (i) **refereed** journal(s)
  - (ii) conference(s)Mark the ones communicated for publication by [c]
- (ix) Write other attributes of the thesis NOT COVERED above in **maximum 100 words**.

**(b) PROFORMA FOR B.E. / B.TECH PROJECT**

- (i) If the Project involves an innovative use of a scientific theory, write a statement **not exceeding 50 words**.
- (ii) If the Project involves an innovative use of technology, describe it in **upto 50 words**.
- (iii) If the Project resulted in a new prototype product, describe its salient features and its innovative elements in **upto 100 words**.
- (iv) If the Project resulted into a product which has a commercial potential, describe it in **upto 50 words**.
- (v) Describe in **upto 100 words** the features of the Project which clearly show creativity.
- (vi) Projects invariably have a major design component. Describe the design features of the project which are distinctive, in **upto 100 words**.
- (vii) Write other attributes of the project NOT COVERED above in **maximum 100 words**.

13. Summary of the project /thesis in less than ONE PAGE, highlighting the candidate's own contribution.  
(Please AVOID giving introduction and/or background information in the summary)

Place :

Date :

Signature of Dean/Head of the Department of concerned Engineering College and Seal \_\_\_\_\_

Name \_\_\_\_\_

Designation and address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Email \_\_\_\_\_

Mobile \_\_\_\_\_