



भारतीय राष्ट्रीय इंजीनियरी अकादमी Indian National Academy of Engineering

604-609, छठी मंजिल, टॉवर ए, स्पेज़ आई-टैक पार्क, सैक्टर 49, सोहना रोड, गुडगाँव-122018 (भारत)

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प्रो. इंद्रनील मान्ना / Prof. Indranil Manna

एफ.एन.ए.ई., एफ.एन.ए., एफ.एन.ए.एस.सी., एफ.ए.एस.सी.,
एफ.टी.डबल्यू.ए.एस., एफ.आई.ई.(आई.), एफ.आई.आई.एम.,
एफ.ई.एम.एस.आई., एफ.डबल्यू.ए.एस.टी., पी.आर.एस.
जे.सी. बोस साथी

FNAE, FNA, FNASc, FASc, FTWAS, FIE(I),

FIIM, FEMSI, FFAST, PRS

J.C. Bose Fellow

उपाध्यक्ष (साहचर्य, पुरस्कार एवं व्यवसायिक संस्था संचार तंत्र)

Vice President (Fellowship, Awards & Corporate Communication)

Ref : INAE/201/IP

To

The Directors of IITs / IISc. / NITs / Engineering and
Technical Institutions and Technological Universities
Regional Offices of AICTE

Sub: Innovative Student Projects Award 2018

Dear Colleague,

The Indian National Academy of Engineering (INAE), founded in 1987, comprises India's most distinguished engineers, engineer-scientists and technologists covering the entire spectrum of engineering disciplines. INAE functions as the apex body and promotes the practice of engineering and technology and related sciences for their application to addressing and solving problems of national importance. One of the objectives of the Academy is to encourage inventions, innovations 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, B.E./B.Tech/B.Sc.(Engg), M.E./M.Tech/M.S. and Ph.D in Engineering Institutions. The award 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 award during the last nineteen years has been both encouraging and rewarding. INAE firmly believes that an early recognition of merit and talent is important to exploit the demographic dividend of the nation of having an extremely large young population and engage them for technological innovation and self-reliance.

I have pleasure in forwarding a brochure giving the details of the award. The eligibility criteria is as follows:

- (a) B.E./B.Tech/B.Sc.(Engg) projects completed up to June 30 during the academic year 2017-2018. Only Final Year (4th year) projects of students who will be completing their B.E./B.Tech degree requirements by June 30, 2018 are eligible to be nominated for the subject award

Professor

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DOAA SECTION/साहचर्य एवं संचार तंत्र

06 FEB 2018

To / No. 785

भारतीय प्रौद्योगिकी संस्थान कोलकाता

January 1, 2018

DOAA

To: JR/AR (DOAA)
For e-learned notices
with a link

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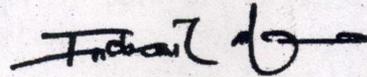
- (b) M.E./M.Tech/M.S. theses examined from July 1, 2017 upto June 30, 2018 during the academic year 2017 -2018.
- (c) Ph.D. theses examined and accepted/recommended for Award from June 1, 2017 upto May 31, 2018.

We request you to kindly **nominate appropriate project/thesis (only one per Section) in the ten Engineering Sections of INAE listed in Serial 7 of the Nomination Form given in the brochure, at Bachelors, Masters or Doctoral level.** Please also attach a copy of the Degree/Provisional Degree Certificate, which is mandatory for a valid nomination. The ink signed hard copy of the nominations on A-4 size paper (along with a CD containing the soft copy) in the prescribed format given in the enclosed Brochure are to be forwarded to INAE Office, Gurgaon. The last date of receipt of nominations is **July 7, 2018.**

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

With best wishes,

Yours sincerely,



(Indranil Manna)

Encl: As above.

INNOVATIVE STUDENT PROJECTS AWARD – 2018

Introduction

The Indian National Academy of Engineering (INAE), established in 1987, is a 'Peer' body 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 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 comprising Government and Private as well as Defence Services Technical Institutions. One best project/thesis in each of the Engineering Sections of INAE (mentioned in serial 7 of the nomination Proforma) 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.

Call for Nominations

One nomination for projects/theses in each of the Engineering Sections of INAE listed in serial 7 of the Nomination Form, 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 form has been downloaded from INAE website). A CD containing a soft copy of the same may be 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 for award of degree 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 2018 will be accepted by the Academy according to the following eligibility requirement.

- B.E./B.Tech projects completed upto June 30 during the academic year 2017-2018. Only Final Year (4th year) projects of students who will be completing their B.E./B.Tech degree requirements by June 30, 2018 are eligible to be nominated for the subject award
- M.E./M.Tech theses examined from July 1, 2017 upto June 30, 2018 during the academic year 2017-2018.
- Ph.D. theses examined and accepted/recommended for Award from June 1, 2017 upto May 31, 2018.

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, 2018. 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.25000/- in cash for selected theses at Doctoral Level; Rs.15000/- in cash for selected theses at Master's Level; and Rs 10,000/- in cash to each team member of the selected project at Bachelor level, subject to a maximum of four team members.

All Innovative Student Project Awardees will also be inducted as "Student-Members" during the Awards Ceremony in INAE Annual Convention. The Student-membership is valid for a period of five years.

Presentation of the work of the Nominee

The short-listed nominees will be invited to make a presentation of their work before a Selection Committee of INAE for durations of 12 min (at Doctoral level) and 9 min (at Master's level) and 7 min (at Bachelor level) on dates to be announced later. The presentation should be strictly based on a maximum of SIX slides at Doctoral & Master's Levels and FIVE slides at Bachelor Level and shall be made on a prescribed format, which shall be forwarded to the shortlisted nominees, subsequently. C.V. of the candidate is not required for presentation.

Forwarding of Nominations

The ink signed hard copy of the nominations should be sent by courier/Speed Post to:

Executive Director,
Indian National Academy of Engineering (INAE),
Unit No. 604-609, 6th Floor, Tower A, SPAZE I-Tech Park, Sector 49, Sohna Road,
Gurgaon - 122018 • Tel : 0124 - 4239480 • Fax : 0124 - 4239481
• Email : inae@inae.in • Website: http://www.inae.in

INNOVATIVE STUDENT PROJECTS AWARD – 2018

Proforma for Nomination

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

- Name of the Institution :
- Postal address of the Institution :
- Telephone, fax and email of the Institution :
- Name & contact address of the nominee(s) :
Address (Office) (Residential)

Telephone : _____ Telephone : _____
Fax : _____ Fax : _____
Email : _____ Email : _____
Mobile: _____
- Current Designation :
- (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 for award of degree
(e) A copy of Degree / Provisional Degree Certificate must accompany the nomination proforma.
- Engineering Section of INAE- (Please specify (only one)):
(ES I-Civil Engineering; ES II-Computer Engineering & Information Technology; ES III-Mechanical Engineering; ES IV-Chemical Engineering; ES V-Electrical Engineering; ES VI-Electronics & Communication Engineering; ES VII- Aerospace Engineering; ES VIII - Mining, Metallurgical & Materials Engineering; ES IX-Energy Engineering; and ES-X Interdisciplinary Engineering & Special Fields).
- Engineering College/Institution where Project/Thesis work carried out for award of degree:
- Awards / Academic Recognitions to the nominee, if any :
- Contact address of the Supervisor/Guide with telephone, Mobile, fax, e-mail etc.
- Title of the Project/Thesis
- 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 Director/Principal/Dean/Head of the Department of concerned Engineering College/Institution

Seal

Name _____

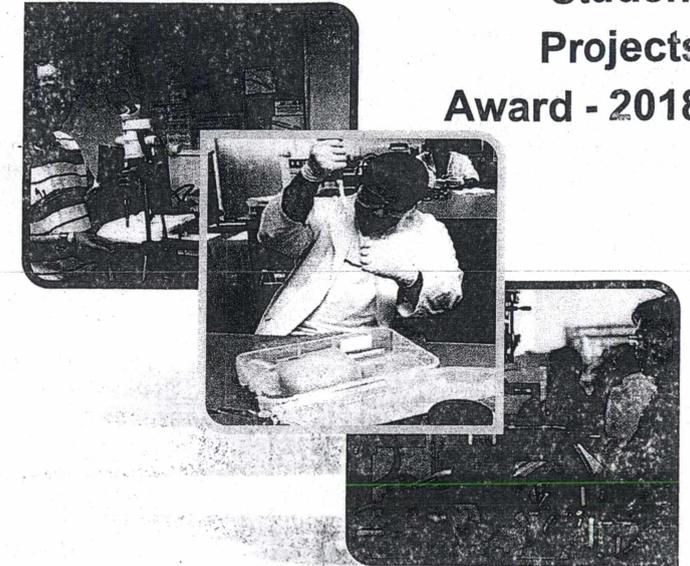
Designation _____

Address _____

Email _____

Mobile _____

Innovative Student Projects Award - 2018



Indian National Academy of Engineering