INDIAN NATIONAL ACADEMY OF ENGINEERING
Nomination Form for Election of Fellows from Academia / R&D / Industry and Engineering Services

We propose the name of:

...........................................................................................................................................................................
(in block letters as used for correspondence) for election as a Fellow of the Academy

Category in which the nomination is to be considered (please tick only one box)

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<tr>
<th>Academic Institutions</th>
<th>Research &amp; Development</th>
<th>Industry &amp; Engineering Services</th>
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Name of the Proposer:  
Affiliation of the Proposer:  
Fellow from the Section:  

....../....../....... ..................................................... 
Date                          Signature

Brief remarks by the proposer about the most outstanding contribution of the nominee based on personal knowledge:

Name of the Seconder:  
Affiliation of the Seconder:  
Fellow from the Section:  

....../....../....... ..................................................... 
Date                          Signature

Brief remarks by the seconder about suitability based on personal knowledge:

To be filled in by the office

Check-List

1. Has the nomination been proposed and seconded correctly?   Yes / No
2. Has the text under each head been put up within the spaces provided?   Yes / No
3. Has the nominee been sponsored for only one specific engineering section?   Yes / No
4. Has the nominee been nominated to INAE earlier?  
   [If answer to # 4 is ‘Yes’, please ensure that two years have elapsed since the expiry of the validity of the earlier nomination. The validity of a nomination is three years and a fresh nomination can be made only after 2 years.]
   Yes / No
5. Number of appendices (supporting documents) submitted along with this nomination:

Registration No:  
Acknowledged on:  

Executive Director

Vice-President (Fellowship, Awards & Corporate Communication)
Particulars of the Nominee

1. Name: ___________________  _____________  _____________________
   First                                                Middle                         Last/surname (in UPPER CASE)

2. Date of Birth: 

3. Country of Citizenship / OCI Card Holder: 

4. Field of Specialization: 
   (up to five)

5. Present Designation and Organization: 

6. Address (for correspondence)
   (a) Official
   (b) Residential
   Phone:
   Fax: Mobile:
   E-Mail Address:

7. Section nominated to (please mention only one section, as listed in encl.): 
   No. _____       Section _______________________

8. Nominee’s Career Profile in terms of (a) Academic Qualifications (Diploma/Bachelor onwards), (b) Professional Experience (last five), (c) Awards/Distinctions:

   (a) Degree
       University/Institution
       Year
       Branch/Stream
       Class/CGPA/Remarks

   (b) Designation
       Organization, Place
       Period (From – To)
       Job/Responsibility

   (c) National/International Awards, Prizes, Certificates, Fellowships (Name, Year, Agency)
       a) e)
       b) f)
       c) g)
       d) h)
9. Please mention SPECIFIC ENGINEERING CONTRIBUTIONS and ACCOMPLISHMENTS meriting nomination to INAE (< 300 words as paragraph or bulleted statements):

_________________________________________________________________________

10. **Summary of Relevant Contributions:**

   **A** Publication Record *(please attach full list in separate sheets with title of paper, list of authors, journal/proceeding/book, volume, year, editor, publisher, place, as applicable)*:
   
   I. Totals number of papers published (in refereed journals/proceedings):
   II. Number of papers published during the last 10 years in refereed journals/proceedings:
   III. List TEN most significant refereed papers with corresponding IF & citation record (please attach reprints):
   IV. State total citation record and h-index (state the database used):
   V. Number of published technical reports including handbook, manual, flow sheet, design/drawing, if any.
   VI. Number of books / monographs / chapters / review articles / new courses / study aids authored:

   **B** Technology/Products/Patents *(with established or demonstrated record)*:
   
   I. Number of innovative technologies (products or processes) developed and implemented:
   II. Number of technology transfer agreements concluded:
   III. Number of national or international patents filed / granted / commercialized:
   IV. Number of model / prototype / pilot plant / demonstration units created for display/deployment:

   **C** Number of Major Sponsored/Consultancy Projects completed or in-progress:
11. **CITATION**

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<th>Middle:</th>
<th>Surname:</th>
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**Designation:**

**Affiliation:**

**Engineering discipline/specialization:**

**Academic Degrees and Professional Fellowships of Academies/Professional Bodies (use abbreviated form only):**

**Citation statement (in 50 words):**

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12. Overall (career wide) engineering contribution of the Nominee (up to 500 words) that reflects the Nominee's cumulative engineering innovation and leadership contributions (please refer to para 3 of Instruction Sheet)

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**Proposer**

**Seconder**
Persons for election as a Fellow (FNAE) shall be: (i) Indian nationals who have worked and/or maintained a regular position in India for the last five or more years and have significantly contributed to the engineering and technological field in India. (ii) Person of Indian origin holding Foreign Passport and OCI Card and is currently working in India continuously for the last 10 years or more (in the same or multiple organizations or be self-employed). (iii) Foreign national holding Foreign Passport must be presently working in India continuously for last 10 years or more (in the same or multiple organizations or be self-employed) and has made significant contribution to Engineering and Technology in India.

1. Nomination to INAE must be submitted using this form, complete in all respect with the relevant information written in English manually, using a printer, or by cutting and pasting the relevant portion of a printed page in the designated area.

2. Each Nominee shall be proposed and seconded only by INAE Fellows, preferably of the same subject domain/discipline, having personal knowledge of the contribution and accomplishment of the Nominee.

3. To identify Engineering Excellence, the criterion for election to the Fellowship may be one or more of the following (but not limited to):
   (i). Notable engineering achievements and novel contributions in design, production, research, innovation, intellectual property generation, project implementation, consultancy and technology development
   (ii). Indigenous technology development leading to commercialization or pilot scale implementation
   (iii). Engineering innovation for new technology (product or process) development and project implementation
   (iv). Technical assistance, consultancy, testing/calibration, demonstration or training provided to industry
   (v). Responsibility for management and professional growth of engineering industry, educational institutions and/or R&D organizations
   (vi). Specific engineering contributions of an individual if involved in a team effort
   (vii). Recognition by “peers” (organizations, scientific/engineering bodies, societies, etc)
   (viii). Facilitation of growth of R&D or industry in the country
   (ix). Proven leadership in capacity development of an engineering field or an allied area leading to innovative applications of engineering for the betterment of society or environment
   (x). Recognition of exceptional merit and eminence in new and emerging fields of engineering and technology

4. The nomination should be accompanied by ONE copy of up to date list of peer reviewed publications, patents or engineering innovations during the last ten years enlisted in public domain database in reverse chronological order.

5. The nomination should clearly mention only one specific sectional committee, as listed below, to which the nominee should be referred to.

6. All materials for nomination including the nomination form in prescribed format must be submitted as one set of hard. A scanned copy of the nomination form only may be forwarded through email at ID: inaehq@inae.in.

7. As supporting materials, the nominator may submit (as appendices) a resume, complete list of peer reviewed intellectual contributions (publications, patents, etc), reprints of ten most significant contributions, evidences of technology development or engineering innovation, and brief account of any other important contribution/achievement of the nominee.

8. The ink signed hard copy of the nomination form complete in all respects, along with enclosures should be sent by registered post/courier/speed post to the Executive Director, Indian National Academy of Engineering, Unit No. 604-609, SPAZE I-Tech Park, 6th Floor, Tower A, Sector 49, Sohna Road, Gurgaon-122018 (INDIA).

9. Nominations will also be invited online through login facility provided to INAE Fellows.

10. Canvassing/lobbying for election to the Fellowship may lead to disqualification.
Sectional Committees with Indicative Specializations

Section I: Civil Engineering

- Structural Engineering; Construction Engineering; Water Resources Engineering/Hydrology; Hydrodynamics;
- Irrigation & Drainage Engineering; Coastal Engineering; Ocean Structures; Port & Harbour Engineering;
- Earthquake Engineering; Wind Engineering and Flood Control; Geotechnical Engineering; Transportation Engineering including Railways; Architecture & Planning; Surveying including Remote Sensing & Other Techniques; Agricultural Engineering; Environmental Engineering

Section II: Computer Engineering and Information Technology

- Computer Software & Hardware including Algorithms and Data Structures; Programming Methodology and Languages; Database Systems, Parallel Processing; Operating Systems; Artificial Intelligence & Soft Computing including Neural Networks, Genetic Algorithm & Quantum Computing; Speech and Language Recognition; Computer Vision, Image Processing and Pattern Recognition; Automata Theory & Applications

Section III: Mechanical Engineering

- Manufacturing and Forming Technologies including Advanced Processing Methods; Production Engineering; Industrial Engineering; Precision Engineering; Foundry and Casting Technology; Welding and Joining; Metrology; Machining; Thermal Science and Engineering including Thermodynamics, Combustion, Heat Transfer, Air-Conditioning & Climatic Control; Design and Analysis of Solids; Thermal and Fluid Mechanical Systems; Machines, Structures and Devices including Kinematics, Mechatronics & Robotics, Micro-Mechanical Systems (MEMS); Tribology; Automobile Engineering; Naval Architecture & Marine Engineering; Vibration Engineering, Acoustics and Noise Prime Movers; Experimental and Computational Stress Analysis for Solids & Fluids; CAD/CAM, CIM; Non destructive evaluation

Section IV: Chemical Engineering

- Product/Process Development; Unit Operations and Processes; Heat/Mass Transfer and Transport Phenomena; Process Control & automation; Process Modelling & Simulation; Reaction Engineering and Catalysis; Microfluid and Fluid Dynamics; Property Evaluation; Chemical and Process Safety Analysis; Manufacturing Practices; Corrosion and Electrochemical Engineering; Chemical Technology including Oils, Paper, Petroleum, Leather, Pharmaceuticals, Textiles, Ceramics, Cement and allied fields; Environmental Engineering of Chemical Systems; Nanotechnology in Chemical Engineering

Section V: Electrical Engineering

- Power Systems including Generation, Transmission, Distribution and Control; Electrical Machines and Devices; Power Electronics, Drives & Control Systems; High Voltage & Insulation Engineering; Electrical Energy Storage including Super Capacitors; Electrical Traction

Section VI: Electronics and Communication Engineering

- Semiconductor Devices including Nanoelectronics, Microelectronics, Infotronics; Communications including Analog, Digital, Wireless, Mobile, Underwater & Space Communication; Optoelectronics & Optical Communications including Lasers & Holography; VLSI and Embedded Systems; Electromagnetics & Microwave Engineering; Consumer Electronics; Electronic Components

Section VII: Aerospace Engineering

Section VIII: Mining, Metallurgical and Materials Engineering

Mineral Exploration; Metallurgical Engineering (Physical / Extractive / Mechanical / Powder Metallurgy); Mineral Processing; Engineering Materials (Metallic, Non-Metallic, Composites and Nanomaterials); Materials Characterization and Evaluation; Joining of materials; Design and development of new materials and techniques; Modeling and simulation of materials and processes; Mining Engineering

Section IX: Energy Engineering

Conventional Energy; Non-Conventional Energy; Nuclear Engineering; Renewable Energy (including Solar, Wind, Tidal; Hydrogen, Fuel Cells, Biomass, Biofuels, Geothermal, etc.; Non-Renewable Energy including Fossil Fuels; Energy Audit & Management

Section X: Interdisciplinary and Special Engineering Fields and Leadership in Academia, R&D and Industry

Mission mode engineering covering more than one section of Engineering as under Section I to IX; Bioengineering/Technology relevant to Chemical Synthesis; Agriculture; Energy; Atmosphere; Food; Medicine and Medical Devices; Biophysics/Mechanics; Marine Resources; Molecular Biology; Ergonomics; Informatics; Forensics; Biomedical Engineering; Environmental Engineering; Climate Change and Global Warming; Waste Management; Recycling; Quality, Reliability & Safety Engineering; Educational Technology; Remote Sensing; Industrial Management

Parameters and Criteria for Nomination and Assessment in 3 Categories

**Academic profession:**
1. Publication (peer reviewed publication, monograph, manual)
2. Teaching, training, supervision (course, book, lecture, thesis, report)
3. Patent and prototype development (design/demonstration/deployment)
4. Peer recognition (awards, prizes, fellowships) and academic distinctions
5. Sponsored research, creation of facility, consultancy, industrial collaboration

**Research and Development:**
1. Contribution (individual/group) to R&D projects/innovation
2. Industrial collaboration (projects, consultancy, development)
3. Sponsored/industry funded research, Patent, Translational research
4. Publication (paper, manual, handbook, report), Prototype/pilot operation
5. Peer and professional recognition (awards, prizes, fellowships, certification)

**Industry and Engineering Services:**
1. Technology development (individual/group contribution)
2. Innovation and leadership in technology development activity
3. Individual contribution in innovation, consultancy and development
4. Patent, publication, supervision, report, manual, handbook, lectures
5. Peer recognition, career achievement, professional distinction and awards