

## INDIAN NATIONAL ACADEMY OF ENGINEERING

## Nomination Form for Election of Foreign Fellows

*(Please use soft copy of this form in case nomination is not being made through INAE Digital Platform)*

We propose the name of:

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

Please indicate whether your proposal is based on: (tick as applicable)

☐

Proposer 1

☐

Proposer 2

## Personal Knowledge of the Nominee

<b>Name of the Proposer 1:</b>          ...../...../..... <b>Date</b>	<b>Brief remarks by the proposer 1 about the most outstanding contribution of the nominee based on personal knowledge:</b>          ..... <b>Signature (If scanned)</b>
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<b>Name of the Proposer 2:</b>          ...../...../..... <b>Date</b>	<b>Brief remarks by the proposer 2 about suitability based on personal knowledge:</b>          ..... <b>Signature (If scanned)</b>
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**To be filled in by the office**  
**Check-List**

- |   |          |
|---|----------|
| 1. Is the nominee a Member of an Academy in his/her country?  | Yes / No |
| 2. Has the nominee contributed to Indian Engineering and Technology significantly during the last 5 years?  | Yes / No |
| 3. Has the nominee been proposed and seconded correctly?  | Yes / No |
| 4. Has the text under each head been put up within the spaces provided?   | Yes / No |
| 5. Has the nominee been sponsored earlier as well?  | Yes / No |
| 6. If answer to 5 is 'Yes', ensure that <b>one year</b> has elapsed since the expiry of the validity of the earlier nomination.<br>[The validity of a nomination is three years and a fresh nomination can be made only after <b>1</b> year.] |          |

Registration No:

Acknowledged on:

Executive Director

Vice-President (Fellowship and Awards)

## Particulars of the Nominee

1. (a) Name: \_\_\_\_\_  
(Full Name in CAPITAL as used in Correspondence)

b) Gender: Male/Female/Others

2. Date & Place of Birth:  
(City/State/Country)

3. Country of Citizenship / OCI Card Holder:

4. Is the nominee a Member of the Engineering Academy  
(or Science Academy, if Engineering Academy  
does not exist in that country) of his/her country.  
Please give details.

5. Field of Specialization:  
(not more than two)

6. Present  
Designation  
and  
Organization:

7. Address (for correspondence)  
(a) Official (b) Residential

Phone:

Fax:

E-Mail Address:

Phone:

Mobile:

E-mail address:

8. The nomination should clearly mention only one specific Engineering Section as listed in encl., to which the nominee should be referred. ES No.

9. In case the nominee is an Overseas Citizen of India (OCI), has he/she Migrated abroad between last 5 to 15 years back.    
Yes No

10. Academic Qualifications and Distinctions:

(a)	Degree	University/Institution	Year	Branch of Engineering
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(b) National/International Honors, Awards, Prizes including honorary degrees


**(c) Membership of National/International Professional Bodies with designed abbreviated titles**

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**11. A record of professional experience of the nominee highlighting his/her achievements in engineering and technological research and development**

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**12. Specify the nominee’s contribution to the development of Indian Engineering and Technology meriting election to the INAE.**



## INSTRUCTION SHEET TO SUBMIT NOMINATION TO INAE

- 1.It is preferable to submit nominations for Fellowship online through INAE Digital Platform using log in facility of Fellows, however in case of difficulties, you may submit the nomination form as soft copy through email to [inaehq@inae.in](mailto:inaehq@inae.in).
- 2.This form must be complete and typed in the third person within the space provided under each head.
- 3.Each Nominee shall be proposed preferably by two Fellows of the same discipline.
- 4.The nominee should meet all requirements in his/her own country equivalent to those for election of an Indian Fellow and his/her engineering achievements should be recognized nationally and internationally.
5. Persons for election as a Foreign Fellow shall be: (i) Person of Indian Origin holding Foreign Passport including OCI who has worked and/or maintained regular position in a foreign country for more than last five years at a stretch and has migrated abroad during last 5-15 years only. It is mandatory for other OCIs who have migrated more than 15 years back to be a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country and (ii) Foreign national holding Foreign Passport who is working and living abroad and is already a Fellow of the Engineering Academy (or Science Academy, if an Engineering Academy does not exist in that country) of his/her country. Nominees for Foreign Fellowship should preferably be less than 75 years of age.
- 6.In all cases, contributions to the concerned engineering domain should be the primary focus of consideration, which is of relevance to our country.
- 7.The nominee's record and interests should clearly demonstrate his/her contribution to the development of Indian Engineering and Technology as in para 12 in the Form. It may please be noted that the **reprints of papers are not required** to be submitted.
- 8.The nomination should clearly mention only one specific **Engineering Section**, as listed, to which the nominee should be referred to.
- 9.Canvassing/lobbying for election to the Fellowship may lead to disqualification.

# **Engineering Sections 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, Infotonics; 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**

Aero & Space Dynamics; Navigation Guidance & Control; Aerospace Structures (Rocket Design, Missile Design, Satellite Design, Aircraft Design and Non-Destructive Evaluation/Testing (NDE/NDT), Composite Structures); Space Transportation Systems including Launch Vehicle Design; Space Engineering; Avionic Systems and Instrumentation; Helicopter Engineering including Design & Analysis; Airworthiness and Safety of Aircraft / Helicopters / Missiles; Flight Simulation & Flight Control; Flight Operation & Maintenance.

### **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

**Note: A nomination may be submitted in One Engineering Section only**