



國立中興大學

National Chung Hsing University



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# 躋身 IEEE FELLOW 會士 之經驗分享

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# What is “Fellow”?

- In academia, a **fellow** is a member of a group of learned people who work together as peers in the pursuit of mutual knowledge or practice.
- The fellows may include visiting professors, postdoctoral researchers and doctoral researchers.
- It may also indicate an individual recipient of a graduate-level merit-based form of funding akin to a scholarship.





# What are the purpose of being Fellow?

- 較有機會早日進入國際學術殿堂；
- 有更多機會進行學術交流或引進世界頂尖新知，有助於研究水準提升；
- 提高國際知名度；
- 更有效的方法增強國際化競爭力；
- 有機會與世界級大師學習與經驗分享。

持續向上提升





「國際電機電子學會」(IEEE, Institute of Electrical and Electronics Engineers)每年公開地選出了數百位(不超過當年會員人數的千分之一)資深會員來晉升為『會士』(IEEE Fellow),而且經年累月所累積的會士總人數不可以超過所有會員人數的百分之二。對研究人員來說,這是一項極為光榮、而且重要的里程碑。







# 台北分會現有IEEE Fellow及其貢獻(127/38 year)

年度	姓名	英文姓名	服務單位	職稱	貢獻
1977	施敏*	Simon M. Sze	中央研究院	院士	For contributions to semiconductor device research and to education
1981	劉兆漢*	Chao-Han Liu	中央大學	教授	For contributions to wave propagation in the ionosphere and to engineering education
1988	彭松村	Song-Tsuen Peng	元智大學	通訊研究中心主任	For contributions to the scattering and guidance of electromagnetic waves by dielectric structures
1988	張俊彥*	Chun-Yen Chang	交通大學	電子系教授	For contributions to semiconductor device development and to education
1989	李家同	Richard C. T. Lee	暨南大學	資訊系教授	For contributions computer engineering education
1990	鄧端理	Denny Duan Lee Tang	台積電		For contributions to the design and scaling of high-speed silicon bipolar devices
1991	盧超群	Nicky Chau-Chun Lu	鈺創科技	董事長	For contributions to semiconductor memory design and technology
1992	李德財	Der Tsai Lee	中央研究院	資訊所所長	For contributions to computational geometry and design and analysis of algorithms
1992	羅仁權	Ren-Chyuan Luo	台灣大學	電機系教授	For contributions to intelligent sensors and robotics
1993	李琳山	Lin-Shan Lee	台灣大學	電機系教授	For contributions to computer voice input/output techniques for Mandarin Chinese and to engineering education
1994	張進福	Jin-Fu Chang	行政院	政務委員	For contributions to research and education in computer communications
1994	陳文村	Wen-Tsuen Chen	清華大學	資工系教授兼校長	For contributions to software engineering and parallel processing systems design
1994	胡正大	Genda J. Hu	FocalTech Systems	執行長	For contributions to the understanding and solutions to the latchup phenomenon in CMOS VLSI
1994	莊景德	Ching-Te Chuang	交通大學	電子系教授	For contributions to high-performance bipolar devices, circuits, and technology
1995	黃調元	Tiao-Yuan Huang	交通大學	電子所教授	For invention and demonstration of fully-over-lapped lightly-doped-drain MOS transistors
1995	盧志遠	Chih-Yuan Lu	旺宏電子	總經理	For contributions to semiconductor technology, and for leadership in the growth of the Taiwan integrated circuit industry
1995	劉張詩韻	Jane Win-Shih Liu	中央研究院	資訊所講座研究員	For contributions to real-time task scheduling methods for computing systems
1996	許炳堅	Bing J Sheu	台積電	設計暨技術平台專案處長	For contributions to signal processing and neural network systems using VLSI processors
1996	陳俊雄	Chun-Hsiung Chen	台灣大學	電機系教授	For contributions to the development of variational and other numerical methods applied to coplanar waveguides and various other structures



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1996	魏哲和	Che-Ho Wei	交通大學	電子系教授	For contributions to circuits and systems for communication and signal processing
1997	朱國瑞	Kwo-Ray Chu	清華大學	物理系教授	For contributions to the basic understanding of relativistic electron cyclotron interaction with electromagnetic waves and development of high power radiation sources based on such interactions
1997	李祖添	Tsu-Tian Lee	台北科技大學	校長	For contributions to the analysis and control of walking robots and leadership in robotics engineering education
1998	吳重雨	Chung-Yu Wu	交通大學	校長	For contributions to implementation of analog neural network integrated circuits
1999	莊晴光	Ching-Kuang Clive Tzuang	台灣大學	電機系教授	For contributions to the analysis and design of complex wave guiding structures and the design of integrated leaky-mode arrays
2000	郭正邦	James B Kuo	台灣大學	電機系教授	For contributions to modeling CMOS VLSI devices
2000	李建平	Chien-Ping Lee	交通大學	奈米科技中心主任	For contributions to optoelectronic integrated circuits and compound semiconductor devices and technology
2000	貝蘇章	Soo-Chang Pei	台灣大學	資電學院院長	For contributions to the development of digital eigenfilter design, color image coding and signal compression, and to electrical engineering education in Taiwan
2000	孫元成	Yuan-Chen Sun	台積電	研究發展資深處長	For contributions to advanced CMOS technology
2001	郭斯彥	Sy-Yen Kuo	台灣大學	電機系教授	For contributions to dependable computing and software reliability engineering
2001	陳良基	Liang-Gee Chen	台灣大學	電機系教授	For contributions to algorithm and architecture design for video coding systems
2001	黃威 L	Wei Hwang	交通大學	電子與資訊研究中心主任	For contributions to high density cell technology and high speed Dynamic Random Access Memory design
2002	杭學鳴	Hsueh-Ming Hang	交通大學	電子系教授	For contributions to video compression algorithms and systems
2002	曾俊元	Tseung-Yuen Tseng	交通大學	電子系教授	For contributions to ceramic capacitor and sensor technologies
2002	黃興燦	Shing-Tsaan Huang	中央大學	資訊系教授	For contributions to parallel and distributed computing
2002	李嗣岑	Si-Chen Lee	台灣大學	校長	For contributions to heterojunction bipolar transistor technology in low noise and high gain applications
2003	林本堅*	Burn Jeng Lin	台積電	資深處長	For contributions to lithography theory, tooling, masks, and fabrication technology
2003	林一平	Yi-Bing Jason Lin	交通大學	資訊學院院長	For contributions to the design and modeling of mobile telecommunications networks and leadership in personal communications services education
2003	陳宏銘	Homer H Chen	台灣大學	電信所教授	For contributions to the development of technology and standards for digital image and video coding



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2003	陳德玉	Dan Y Chen	台灣大學	電機系教授	For contributions to the basic understanding of switching power supplies
2004	吳誠文	Cheng-Wen Wu	清華大學	電機系教授	For contributions to design and test of array structures
2004	張正尚	Cheng-Shang Chang	清華大學	電機系教授	For contributions to the theory of providing performance guarantees in communication networks
2004	張道治	Dau-Chyrh Chang	亞東技術學院	通訊技術中心主任	For technical leadership in antenna design and measurement systems
2004	陳銘憲	Ming-Syan Chen	台灣大學	電機系教授	For contributions to algorithms for query processing and data management in parallel and distributed systems
2004	傅立成	Li-Chen Fu	台灣大學	電機/資訊系教授	For contributions to robotic control and computer-integrated manufacturing systems
2005	吳靜雄*	Jingshown Wu	台灣大學	電機系教授	For leadership in higher education and wireless industry development
2005	林進燈	Chin-Teng Lin	交通大學	教務長	For contributions to biologically inspired information systems
2005	陳永昌	Yung-Chang Chen	清華大學	電機系教授	For contributions to low bit rate modeling based coding
2005	周景揚	Jing-Yang Jou	交通大學	台灣聯合大學系統副校長	For contributions to the computer aided design of digital circuits
2006	張仲儒	Chung-Ju Chang	交通大學	電信系教授	For contributions to radio resource management for mobile communication systems
2006	王暉	Huei Wang	台灣大學	電信所所長	For contributions to broadband and millimeter-wave monolithic millimeter-wave integrated circuits (MMICs) and radio frequency integrated circuits (RFICs)
2006	許聞廉	Wen-Lian Hsu	中央研究院	資訊所特聘研究員	For contributions to natural language systems and bioinformatics
2006	莊紹勳	Steve S. Chung	交通大學	講座教授	For contributions to reliability in ultra-thin-oxide complementary metal oxide semiconductor (CMOS) devices
2006	雷少民	Shaw-Min Lei	聯發科技股份有限公司		For contributions to video and image coding standards
2006	梁孟松	Mong-Song Liang	台積電	資深處長	For contributions to semiconductor manufacturing technologies
2007	林寶樹	Bao-Shuh Lin	工研院	資訊與通訊所所長	For leadership in technology and industry development of broadband information network and digital video
2007	陳光禎	Kwang-Cheng Chen	台灣大學	電信所教授	For contributions to wireless broadband communications and wireless local area networks
2007	陳錕山	Kun-Shan Chen	中央大學	太空遙測中心教授	For contributions to remote sensing image and signal processing





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2007	鄭慕德	Mu-Der Jeng	海洋大學	電機系	For applications of Petri nets to semiconductor manufacturing automation
2008	王文俊	Wen-June Wang	中央大學	電機系 教授	For contributions to the design and development of fuzzy systems and theorems
2008	王啟旭	Chi-Hsu Wang	交通大學	電機與控制 系教授	For contributions to fuzzy logic, neural networks and intelligent control
2008	吳家麟	Ja-Ling Wu	台灣大學	資訊系 教授	For contributions to image and video analysis, coding, digital watermarking, and rights management
2008	李百祺	Pai-Chi Lee	台灣大學	生醫電子與 資訊所所長	For contribution to ultrasonic imaging technologies
2008	汪重光	Chorng-K Wang	台灣大學	電子所 教授	For contributions to communications circuit design and for leadership in promoting the profession
2008	柯明道	Ming-Dou Ker	交通大學	電子所 教授	For contributions to electrostatic protection in integrated circuits, and performance optimization of VLSI micro-systems
2008	洪銘輝	Minghwei Hong	清華大學	材料系 教授	For contributions to III-V semiconductor MOSFET transistors
2008	徐爵民	Jyuo-Min Shyu	清華大學	資訊系 教授	For leadership in the microelectronics industry
2008	鄭芳田	Fan-Tien Cheng	成功大學	E 化製造研究 中心主任	For contributions to semiconductor manufacturing automation and force optimization in multiple-chain robotic mechanisms
2008	謝漢萍	Han-Ping Shieh	交通大學	光電系 教授	For leadership in the display and optical data storage industries
2008	謝漢萍	Han-Ping Shieh	交通大學	光電系 教授	For leadership in the display and optical data storage industries
2009	鐘嘉德	Char-Dir Chung	台灣大學	教授	For leadership in the broadband wireless communications industry
2009	傅勝利	Shen-Li Fu	義守大學	教授	For contributions to electronic packaging research and education
2009	許建平	Jang-Ping Sheu	清華大學	教授	For contributions to mobile computing and parallel processing
2009	孫啟光	Chi-Kuang Sun	台灣大學	教授	For contributions to high resolution medical microscopy and nano ultrasonic imaging
2009	陳金蓮	Jean-Lien Chen	台灣科技大學	教授	For leadership in information and communication education
2010	范龍生	Long-Sheng Fan	清華大學	教授	For contributions to Micro Electro-Mechanical Systems
2010	許博文	Powen Hsu	台灣大學	教授	For leadership in electrical engineering education
2010	徐敬文	Ching-Wen Hsue	台灣科技大學	講座教授	For contribution to discrete-time signal processing in microwave engineering
2010	廖婉君	Wanjiun Liao	台灣大學	教授	For contributions to communication protocols in multimedia networking
2010	林志民	Chih-Min (Jimmy) Lin	元智大學	教授	For contributions to fuzzy system, neural network, and cerebellar model articulation controllers
2010	林清富	Ching-Fuh Lin	台灣大學	教授	For contributions to broadband semiconductor optical devices
2010	劉深淵	Shen-Iuan Liu	台灣大學	教授	For contributions to high-speed phase-locked and





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2010	劉瑞琛	Rich Liu	旺宏電子	副總	For leadership in electron-beam mask writing, interconnects, and non-volatile technology development
2010	蘇順豐	Shun-Feng Su	台灣科技大學	教授	For contributions to computational intelligence and intelligent control
2010	吳瑞北	Ruey-Beei Wu	台灣大學	教授	For contributions to coplanar waveguide passive components
2011	張慶瑞	Ching-Ray Chang	台灣大學	教授	For contributions to micromagnetic calculations and computational approaches in spin transport
2011	陳錫明	Shyi-Ming Chen	台灣科技大學	教授	For contributions to fuzzy reasoning forecasting and information retrieval
2011	荊鳳德	Albert Chin	交通大學	教授	For contributions to high-K dielectrics and metal gate electrodes For complementary metal-oxide semiconductor
2011	綦振瀛	Jen-Inn Chyi	中央大學	教授	For contributions to III-V compound semiconductor optoelectronic devices
2011	韓永祥	Yungh-Siang Han	台北大學	教授	For contributions to decoding techniques
2011	郭大維	Tei-Wei Kuo	台灣大學	教授	For contributions to real-time embedded systems and flash-memory storage systems
2011	林智仁	Chih-Jen Lin	台灣大學	教授	For contributions to support vector machine algorithms and software
2011	王蒞君	Li-Chun Wang	交通大學	教授	For contributions to cellular architectures and radio resource management in wireless networks
2012	陳志成	Jyh-Cheng Chen	交通大學	教授	For contributions to energy efficient protocols in wireless networks
2012	周錫增	Hsi-Tseng Chou	元智大學	教授	For contributions to high frequency electromagnetic analysis and its applications to antenna design
2012	黃彥男	Yennun Huang	威達雲端電訊	總經理	For contributions to fault tolerant and failure avoidance software
2012		Anthony S. Oates	台灣積體電路		For contributions to the engineering and understanding of interconnect reliability in integrated circuits
2012	潘犀靈	Ci-Ling Pan	清華大學	教授	For contributions to optoelectronic and liquid crystal devices for ultrafast and terahertz photonics
2012	蔡定平	Din Ping Tsai	國研院儀科中心	主任	For contributions to nanophotonics and near-field optics for microscopy and storage
2012	曾煜棋	Yu-Chee Tseng	交通大學	教授	For contributions to wireless and mobile networks
2012	王晉良	Chin-Liang Wang	清華大學	教授	For contributions to signal processing algorithms and architectures for digital communications
2012	吳炳飛	Bing-Fei Wu	交通大學	所長	For contributions to intelligent transportation and multimedia systems
2012	楊谷章	Guu-Chang Yang	中興大學	特聘教授	For contributions to optical code division multiple access
2013	張耀文	Yao-Wen Chang	台灣大學	特聘教授	For contributions to VLSI physical design and manufacturability
2013	江國寧	Kuo-Ning Chiang	清華大學	特聘教授	For contributions to design and reliability of electronic packaging
2013	闕志達	Tzi-Dar Chiueh	台灣大學	教授	For contributions to baseband processing integrated circuits for communications systems
2013	廖弘源	Mark Liao	中央研究院	特聘研究員	For contributions to image and video forensics and security
2013	林盈達	Ying-Dar Lin	交通大學	教授	For contributions to multi-hop cellular communications and deep packet inspection
2013	劉志文	Chih-Wen Liu	台灣大學	教授	For applications of phasor measurements to fault location and dynamics monitoring in power networks
2013	王偉彥	Wei-Yen Wang	臺灣師範大學	特聘教授	For contributions to observer-based adaptive fuzzy-neural control for uncertain nonlinear systems



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2013	吳宗霖	Tzong-Lin Wu	台灣大學	教授	For contributions to noise mitigation technologies and electromagnetic compatibility design on printed circuit boards
2013	余振華	Chen-Hua Yu	台積電	研發處長	For leadership in development of interconnect technology for integrated circuits
2014	張 翼	Edward Chang	交通大學	研究發展處 研發長	for contributions to compound semiconductor heterojunction transistor technologies
2014	張守進	Shoou-Jinn Chang	成功大學	教 授	for contributions to nano scale photonic, electronic, and sensing devices
2014	蔣迪豪	Tihao Chiang	安霸股份有限 公司	董事長	for contributions to the theory and applications of video coding algorithms
2014	郭仁財	Jen-Tsai Kuo	長庚大學	教授	for contributions to planar microwave components and numerical electromagnetics
2014	賴炎生	Yen-Shin Lai	臺北科技大學	講座教授	for contributions to power converters and motor drives controlled by pulse width modulation
2014	謝續平	Shiuhpyng Shieh	交通大學	特聘教授	for advances in pattern-oriented intrusion detection and fault-tolerant protection
2015	周至宏	Jyh-Horng Chou	高雄應用科技 大學	教授	for contributions to hybrid evolutionary optimization approaches for industrial applications
2015	方維倫	Weileun Fang	清華大學	特聘教授	for contributions to measurement methods and process technologies for micro-electro-mechanical systems
2015	洪瑞華	Ray-Hua Horng	中興大學	特聘教授	for contributions to high brightness light emitting diodes
2015	郭浩中	Hao-chung Kuo	交通大學	教授	for contributions to light emitting diodes and vertical cavity surface emitting lasers
2015	吳安宇	An-Yeu (Andy) Wu	台灣大學	教授	for contributions to DSP algorithms and VLSI designs for communication IC/SoC



# IEEE FELLOW GRADE NOMINATION FORM

## 1. NOMINEE INFORMATION

Last Name (Family)	First	Middle	Prefix
Organization's Name (If self employed, please indicate) (Education/Industry/Government/Other)		Organization's Affiliation	
Preferred Mailing Address			
City	State/Province	Zip/Postal Code	Country
Telephone #	Fax#	E-mail	IEEE Member Number

## 2. EDUCATION

<u>Degrees</u>	<u>Year</u>	<u>Educational Institution</u>	<u>Location</u>
PhD			
Masters			
Bachelors/First Degree			

## 3. PROFESSIONAL HISTORY

Current position first. If necessary, cite only most recent positions.

From (year) to (year)	Name of Company	Position Held
-----------------------	-----------------	---------------

## 4. PROPOSED CITATION (not more than 20 words)

## 5. NOMINATOR INFORMATION

Last Name (Family)	First	Middle	Prefix
Organization's Name	Preferred Mailing Address		
City	State/Province	Zip/Postal Code	Country
Telephone #	Fax#	E-mail	





# IEEE FELLOW GRADE NOMINATION FORM

## 6. INDIVIDUAL CONTRIBUTIONS (Specify Succinctly)

Identify the category in which the nominee has made significant contribution that would qualify him/her for Fellow grade.

\_\_\_\_\_ Application Engineer/Practitioner    \_\_\_\_\_ Educator    \_\_\_\_\_ Research Engineer/Scientist    \_\_\_\_\_ Technical Leader

6a. Describe your relationship to the nominee and how you, PERSONALLY, became aware of the importance of his/her extraordinary accomplishments and their impact on society. **(not more than 100 words)**

6b. Explain how the nominee's one or two most distinctive contributions have contributed to the advancement or application of engineering, science, and technology. Explain how these contributions of unusual distinction have had a lasting impact on society. Identify specific attributes of the nominee's contributions that qualify him/her for elevation to Fellow, and why the nominee ranks near the top of those in his/her discipline. **(Not more than 750 words)**

## 7. EVIDENCE OF TECHNICAL ACCOMPLISHMENT (not more than 1000 words)

Supply the following information in two parts. PART 1: List the three most important items of tangible and verifiable evidence of technical accomplishments identified in section 6b, such as: technical publications; technical reports and presentations; patents; development of products, applications and systems; and, application of facilities and services. In sentence form, state the engineering significance and lasting societal impact of each. PART 2: List not more than 10 additional items, subdivided into distinct areas of contributions. In sentence form, identify the significance and impact of each. (See Item 7 in the instructions for samples of documenting accomplishments.) List titles of publications in English.

DO NOT INCLUDE WEB LINKS IN SECTIONS.





# IEEE FELLOW GRADE NOMINATION FORM

8. IEEE ACTIVITIES – AWARDS, OFFICES HELD, COMMITTEE MEMBERSHIPS (not more than 250 words)

9. NON-IEEE ACTIVITIES AWARDS, PROFESSIONAL SOCIETY MEMBERSHIPS, COMMITTEE

10. REFERENCES OF NOMINATION List the complete name of a minimum of 5 (maximum of 8) References. Refer to the

11. ENDORSEMENT OF NOMINATION (Optional) Provide name of IEEE Section, Chapter, Committee or non-IEEE



# IEEE FELLOW GRADE NOMINATION FORM

**12. EVALUATION BY IEEE SOCIETY/TECHNICAL COUNCIL** It is essential that the nomination be evaluated by the Society engaged in the technical field mentioned in the citation. The nominator is required to: (1) list below only the IEEE

Name of IEEE Society/Technical Council to Evaluate Fellow nominee (one only):

1.

NOTE: If the above nominee is elevated to Fellow grade, the nominator agrees to release the contents of this form to authorized IEEE committees of the Awards Board for the purpose of recommending nominees for IEEE Awards. Only this nomination form will be released for this purpose.







# 如何讓國際人士認識你

- 多出席國際會議並主動與重要人士交流；
- 多邀請國際重要人士來訪進行學術交流



- 擔任國際重要學術組織理監事及執行委員、國際知名學術期刊主編、副主編等；
- 爭取或籌備主辦國際專業學術旗艦型會議，建立相關學術社群的影響力；
- 重要國際學術組織在台灣分會或辦公室的設立及運作；
- 其他有助於推動學術貢獻全球化及與國際接軌的計畫。



# 躋身國際會士策略

- 積極參加國內外學術研討會及積極被推薦擔任邀請講員
- 早日將一般會員申請為資深會員
- 積極主辦/參與IEEE學術研討會
- 積極邀請IEEE/Photonics主席及國際知名學術期刊編輯到國內演講與交流
- 積極被推薦擔任國際重要學術學會理監事、國際重要研討會規劃委員及委員會委員
- 積極參與IEEE會員活動服務
- 諮詢歷年工程處榮獲國際學會會士



# 國際電機電子學會(IEEE)會士三部曲

1  
加入會員  
(儘早加入,  
學生會員)

2  
晉升資深會員  
(Senior Member)

3  
Fellow 申請

- IEEE會員屬性分學術界、政府單位、工業界、及其他共四類，
- IEEE會士申請領域分應用工程師、教育家、技術管理者、及研究工程師與科學家共四種。
- 一般於學校教師通常選擇研究工程師與科學家申請，惟於學校擔任行政主管學者，其提出引用(Proposed Citation)可結合第二種(教育家)與四種(研究工程師與科學家)領域申請，這選擇對學術研究成果很好並擔任學校行政主管學者，可增加獲得會士機會。





# 國際電機電子學會(IEEE)會士申請與獲得

- IEEE會士提名表格共十二項(附件一)，這十二項表格最多只能寫四頁，在表格內最重要貢獻說明，須具體陳述主要研究成果貢獻及影響力，不需要將您研究一一說明。其他所參與之IEEE活動，包括獎項、會員服務、擔任研討會委員均有加分作用。
- 申請IEEE會士提名，每年必須在年三月一日前提出。
- 申請成為IEEE會士需有八位會士推薦者與一名提名者(Nominator)及三名學者專家支持信(Option)，而這八位推薦者最好不是在同一國家的學者，這代表您研究成果受國際肯定，且您邀請這八位學者要確定能替您極力推薦，否則不一定要湊到八位推薦函。選擇會士提名者人選也很重要，最好選擇國際重要知名人士。
- 每年申請獲得會士IEEE會士比例為低於IEEE會員總人數的0.1%，通常第一次申請IEEE就獲得會士的機會相當少。
- 要獲得IEEE會士，個人孤軍奮鬥，即便有實力仍顯吃力，需要國內外學者專家友人系統協助，使自己研究成果被人肯定看到而獲得IEEE會士。



# IEEE會士申請流程三部曲

1  
準備個人  
資料

2  
邀請提名者  
(Nominator)

3  
邀請推薦者  
(References)

- IEEE會員屬性分學術界、政府單位、工業界、及其他共四類，
- IEEE會士申請領域分應用工程師、教育家、技術管理者、及**研究工程師與科學家**共四種。
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# REQUIREMENTS FOR IEEE FELLOW GRADE

## (Candidate)

- have accomplishments that have contributed importantly to the advancement or application of engineering, science and technology, bringing the realization of significant value to society;
- hold [IEEE Senior Member or IEEE Life Senior Member grade](#);
- have been a member in good standing in any grade for a period of five years or more preceding 1 January of the year of elevation.
- Candidate **cannot be a member** of the IEEE Board of Directors, the IEEE Fellow Committee, IEEE Technical Society/Council Fellow Evaluating Committee Chair, or a member of IEEE Society/ Council Fellow Evaluating Committees reviewing the nomination.



# REQUIREMENTS FOR IEEE FELLOW GRADE

## (Nominator)

Any person, including non-members, are eligible to serve as a nominator with the following exceptions:

- members of the IEEE Board of Directors,
- members of the IEEE Fellow Committee,
- IEEE Technical Society/Council Fellow Evaluating Committee Chairs,
- members of IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination, or IEEE Staff.







# THE IEEE FELLOW PROCESS

## Responsibilities of a Nominator:

- Submit the IEEE Fellow Grade Nomination Form by 01 March.
- Solicitation of **at least five**, but **no more than eight**, references who are capable of assessing the candidate's contributions.
- Solicitation of Endorsements (optional; no more than three)
- Identification of an IEEE Technical Society/Council to evaluate the nomination.





# THE IEEE FELLOW PROCESS

## RESPONSIBILITIES OF A REFERENCE

- Submit the IEEE Fellow Grade Reference Form by 01 March.

- Eligibility: A Reference must be an IEEE Fellow in good standing.
- The following individuals are ineligible to serve as IEEE Fellow References: members of the IEEE Board of Directors, members of the Fellow Committee, members of the IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination or IEEE Staff. In addition, a nominator may not serve as a reference for a nomination he/she is submitting.



# THE IEEE FELLOW PROCESS

## RESPONSIBILITIES OF AN ENDORSEMENT

- Submit the IEEE Fellow Endorsement Form by 01 March.
- Eligibility: Any person, including non-members, may be an Endorsement.
- The following individuals are ineligible to serve as Endorsements: members of the IEEE Board of Directors, members of the Fellow Committee, members of the IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination or IEEE Staff. In addition, a nominator may not serve as an endorser for a nomination he/she is submitting.



# THE IEEE FELLOW PROCESS

## Responsibilities of an IEEE Society/Council Fellow Evaluating Committee Chair:

- Organize and chair a committee of experts.
- Evaluate candidates referred by the nominator.
- Review citation.
- Submit scores by 15 June.

Eligibility: Must be an IEEE Fellow. Cannot serve as a nominator for any candidates. Cannot serve as a reference or an endorsement for any Fellow Candidates evaluated by his/her respective Evaluating Committee. Cannot be a member of the IEEE Fellow Committee or the IEEE Board of Directors.







# THE IEEE FELLOW PROCESS

## Responsibilities of IEEE Fellow Committee Members:

- Evaluate approximately 115 candidates.
- Score candidates based on the following criteria:
  - Significant contributions as Application Engineer/Practitioner, Educator, Research Engineer/Scientist, and Technical Leader.
  - Evidence of technical accomplishments and realization of significant impact to society
  - Evaluation by the IEEE Society/Technical Council selected by the nominator
  - Confidential opinions of references and endorsers
  - Service to professional engineering societies
  - Total years in the profession



# THE IEEE FELLOW PROCESS

## Individual Contributions

- Application Engineer/Practitioner – Responsible for product development, advancement in system, application or operation, project management or construction activity, process development, manufacturing innovation, codes or standards development, or other application of technology
- Educator – Responsible to advance electrical engineering and scientific technology through education by the developing curricula and/or courses that are innovative and unique
- Research Engineer/Scientist – Responsible for inventions, discoveries or advances in the state of the art technological advances
- Technical Leader – Responsible for a managerial, team, or company-wide effort using technical innovation, and resulting in outstanding performance, economic enhancements, or other advantages to benefit society





# THE IEEE FELLOW PROCESS

## Final Review

- IEEE Fellow Committee normally meets in late September or early October.
- Reviews scores and ranks proposed Fellow candidates.
- Prepares recommended citations.
- Recommends a list of proposed Fellow candidates to the Board of Directors.



# TIMELINES

Nominator

Nomination Form

01 March

Reference

Reference Form

01 March

Endorsement

Endorsement Form

01 March

Society/Council  
Chair

Submit Scores

15 June

Fellow Committee

Final Review

September

Board of Directors

Approve Slate

November







# 2015 Fellow Statistics

• Total IEEE Voting Membership	346,505
• Number of Fellows	6,973
• Number of Female Fellows	26
• Total Nominations Received	874
• Total Candidates Elevated*	300

\* The total number of Fellow recommendations in any one year must not exceed one-tenth of one percent of the IEEE voting membership on record as of 31 December of the year preceding



# 2015 Fellow Statistics

	Voting Membership	Nominations Received	Nominees Elevated	% of Total Voting Membership	% of Total Nominations Received	% of Total Nominees Elevated	% Success
Regions 1-6 (U.S.)	179,874	429	163	51.9%	49.1%	54.3%	38.0%
Region 7 (Canada)	15,493	45	19	4.5%	5.1%	6.3%	42.2%
Region 8 (Europe, Mid East, Africa)	65,569	179	53	18.9%	20.5%	17.7%	29.6%
Region 9 (Latin America)	11,709	9	1	3.4%	1.0%	0.3%	11.1%
Region 10 (Asia and Pacific)	73,860	212	64	21.3%	24.3%	21.3%	30.2%
<b>Total</b>	<b>346,505</b>	<b>874</b>	<b>300</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>34.3%</b>

Society/Council	Voting Membership	Nominations Received	Nominees Elevated	% of Total Voting Membership	% of Total Nominations Received	% of Total Nominees Elevated	% Success
AES	4,645	20	11	1.3%	2.3%	3.7%	55.0%
AP	8,268	32	10	2.4%	3.7%	3.3%	31.3%
ASC	0	1	1	0.0%	0.1%	0.3%	100.0%
BIO	0	0	0	0.0%	0.0%	0.0%	0.0%
BT	1,686	1	1	0.5%	0.1%	0.3%	100.0%
CAS	9,678	40	11	2.8%	4.6%	3.7%	27.5%
COMM	46,249	101	39	13.3%	11.6%	13.0%	38.6%
CPMT	2,505	9	3	0.7%	1.0%	1.0%	33.3%
CIS	6,472	26	6	1.9%	3.0%	2.0%	23.1%
COMP	47,317	120	43	13.7%	13.7%	14.3%	35.8%
CE	3,266	5	1	0.9%	0.6%	0.3%	20.0%
CS	9,287	35	8	2.7%	4.0%	2.7%	22.9%
CEDA	0	11	5	0.0%	1.3%	1.7%	45.5%
DEI	2,202	4	1	0.6%	0.5%	0.3%	25.0%
Educ	3,492	12	3	1.0%	1.4%	1.0%	25.0%
EMC	3,902	6	3	1.1%	0.7%	1.0%	50.0%
ED	9,857	47	13	2.8%	5.4%	4.3%	27.7%
EMB	8,551	20	9	2.5%	2.3%	3.0%	45.0%
GRS	3,124	20	6	0.9%	2.3%	2.0%	30.0%
IA	10,148	21	7	2.9%	2.4%	2.3%	33.3%
IE	5,882	11	4	1.7%	1.3%	1.3%	36.4%
IM	4,085	8	3	1.2%	0.9%	1.0%	37.5%



# Fellow Candidates Nominated & Elevated by Affiliation

## FELLOW NOMINATIONS BY AFFILIATION

Class of	NOMINATIONS RECEIVED					ELEVATIONS				
	Education	Government	Industry	Other	Total	Education	Government	Industry	Other	Total
1999	303	28	207	26	564	132	13	83	11	239
2000	297	11	206	17	531	133	7	103	5	248
2001	277	28	209	11	525	139	13	98	6	256
2002	327	38	171	25	561	143	14	91	11	259
2003	406	45	166	12	629	165	14	76	5	260
2004	432	45	179	19	675	150	22	82	6	260
2005	496	60	200	22	778	176	23	58	11	268
2006	501	60	194	30	785	173	17	69	12	271
2007	526	65	166	8	765	167	27	71	3	268
2008	501	51	204	17	773	188	17	84	6	295
2009	512	48	182	15	757	204	15	78	5	302
2010	542	43	187	25	797	206	17	72	14	309
2011	553	55	188	17	813	211	18	85	7	321
2012	568	55	164	12	799	234	19	71	5	329
2013	566	65	182	18	831	191	24	77	5	297
2014	589	54	193	16	852	192	23	67	11	293
2015	619	52	190	13	874	211	21	65	3	300



## by Affiliation

	2013		2014		2015	
Affiliation	Nominated	Elevated	Nominated	Elevated	Nominated	Elevated
Education	566	191	589	192	619	211
Government	65	24	54	23	52	21
Industry	182	77	193	67	190	65
Other	18	5	16	11	13	3





# Fellow Candidates Nominated & Elevated

## by Age

### NOMINATED

Age Group	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
31 - 39	9	16	28	38	39	28	16	11	11	20	10	18	21	16	14	12	14
40 - 44	56	72	90	94	101	128	123	134	109	101	102	78	80	71	80	78	73
45 - 49	119	125	114	120	124	143	167	190	187	193	189	176	181	168	168	178	176
50 - 54	106	100	89	100	135	129	162	152	168	171	153	175	173	185	209	191	215
55 - 59	102	98	97	106	106	114	151	119	130	102	116	129	130	151	137	158	168
60 - 64	83	63	61	64	71	62	62	82	74	97	80	91	99	87	93	108	91
65 - 69	55	36	25	18	25	30	54	43	38	37	45	43	44	45	45	52	55
70 - 76	28	14	16	11	11	8	14	16	17	20	20	27	22	15	21	19	19
77 - 85	8	7	4	2	1	5	6	4	6	5	7	10	7	8	11	5	6
86+	0	0	1	0	0	0	0	1	2	1	0	1	0	1	3	1	1
Not Given	0	0	0	8	16	28	23	33	23	26	35	49	56	52	50	50	56
<b>TOTAL</b>	<b>566</b>	<b>531</b>	<b>525</b>	<b>561</b>	<b>629</b>	<b>675</b>	<b>778</b>	<b>785</b>	<b>765</b>	<b>773</b>	<b>757</b>	<b>797</b>	<b>813</b>	<b>799</b>	<b>831</b>	<b>852</b>	<b>874</b>

### ELEVATED

Age Group	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
31 - 39	2	4	16	13	4	8	5	1	3	5	6	7	13	8	8	5	5
40 - 44	24	33	49	33	32	58	44	37	43	39	47	34	43	33	36	32	31
45 - 49	50	63	52	64	57	55	61	69	61	69	76	64	73	69	67	58	68
50 - 54	54	52	42	50	50	42	53	48	72	69	44	71	68	64	65	74	61
55 - 59	34	44	48	52	50	41	50	42	39	47	45	53	56	67	37	51	62
60 - 64	40	29	26	24	43	28	24	35	23	32	40	32	29	39	33	33	23
65 - 69	20	13	12	11	14	14	19	19	11	12	23	18	14	18	15	14	21
70 - 76	10	7	7	5	5	2	6	6	7	9	5	9	6	4	11	7	8
77 - 85	5	3	3	3	1	2	0	0	3	3	3	3	1	3	6	2	1
86+	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0
Not Given	0	0	0	4	4	10	6	13	6	10	13	18	18	24	17	17	20
<b>TOTAL</b>	<b>239</b>	<b>248</b>	<b>256</b>	<b>259</b>	<b>260</b>	<b>260</b>	<b>268</b>	<b>271</b>	<b>268</b>	<b>295</b>	<b>302</b>	<b>309</b>	<b>321</b>	<b>329</b>	<b>297</b>	<b>293</b>	<b>300</b>



# For Further Information

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QUESTION or COMMENTS?

