



THE ENGINEERING ACADEMY OF JAPAN

EAJ

June 2023

About EAJ



Voluntarily, Independently, and Internationally

- Established in 1987, Incorporated in 1998
- Elected as a CAETS member in 1990
- Changed to a Public Interest Incorporated Association in 2013
- The Engineering Academy of Japan Inc. (EAJ) is composed of leading experts from academia, industry, and government institutions who possess a wide range of knowledge and have made outstanding contributions in engineering and technological sciences, and closely related fields.

Basic Policy of EAJ



Engineer the Future Society for Human Security and Well-being

- **Make Policy Recommendations**
- **Exchange Ideas Internationally**
- **Foster Next Generation Leaders**
- **Cultivate Engineering Literacy of People**
- **Get Together and Co-Create**

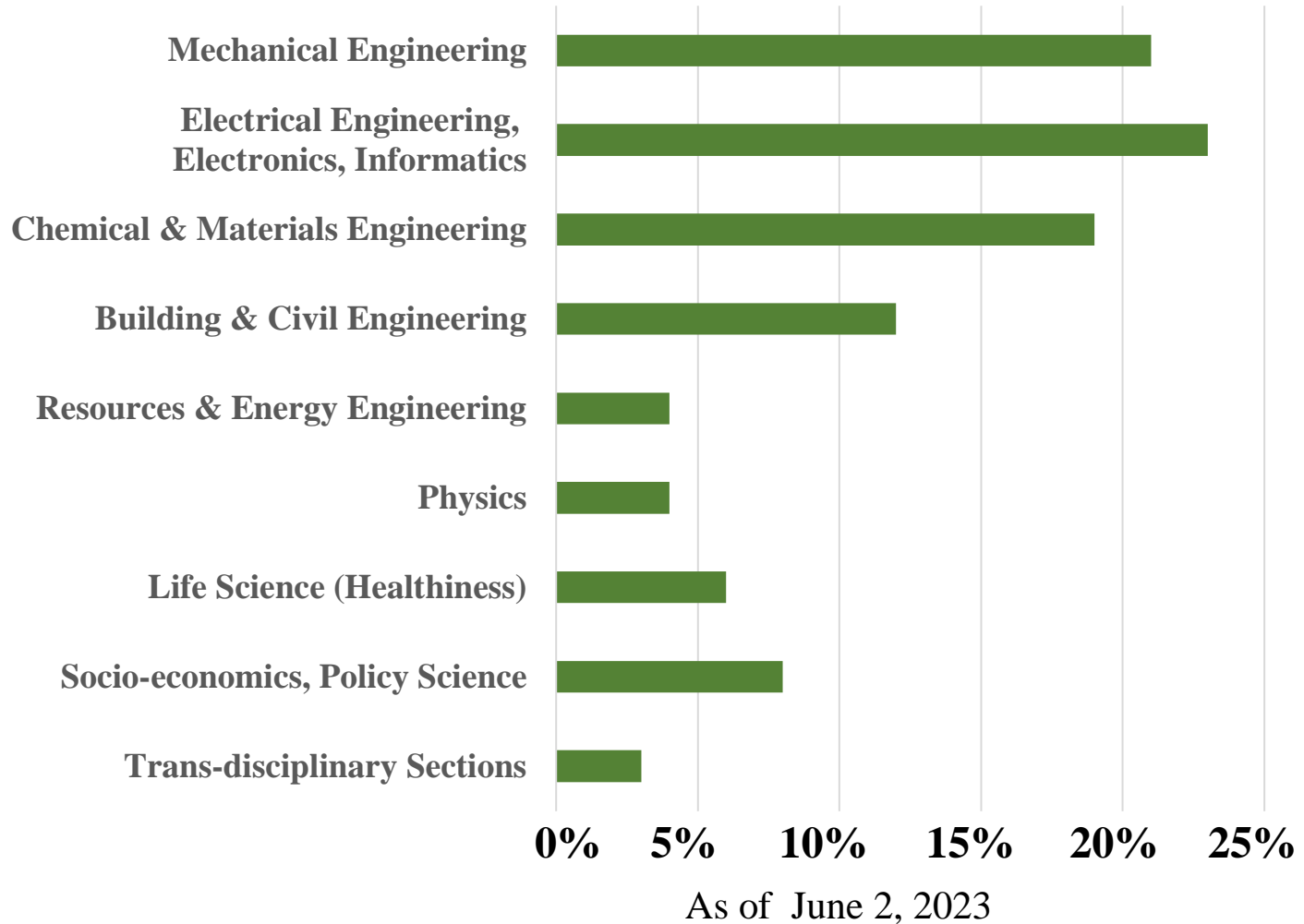
Members

As of June 2, 2023



- **Japanese Members: 819**
- **Foreign Associates: 50**
 - Other Academy Members: 15**
 - Non-Japanese Residents: 35**
- **Corporate Members: 49**

Specialties



Board of Directors 2023

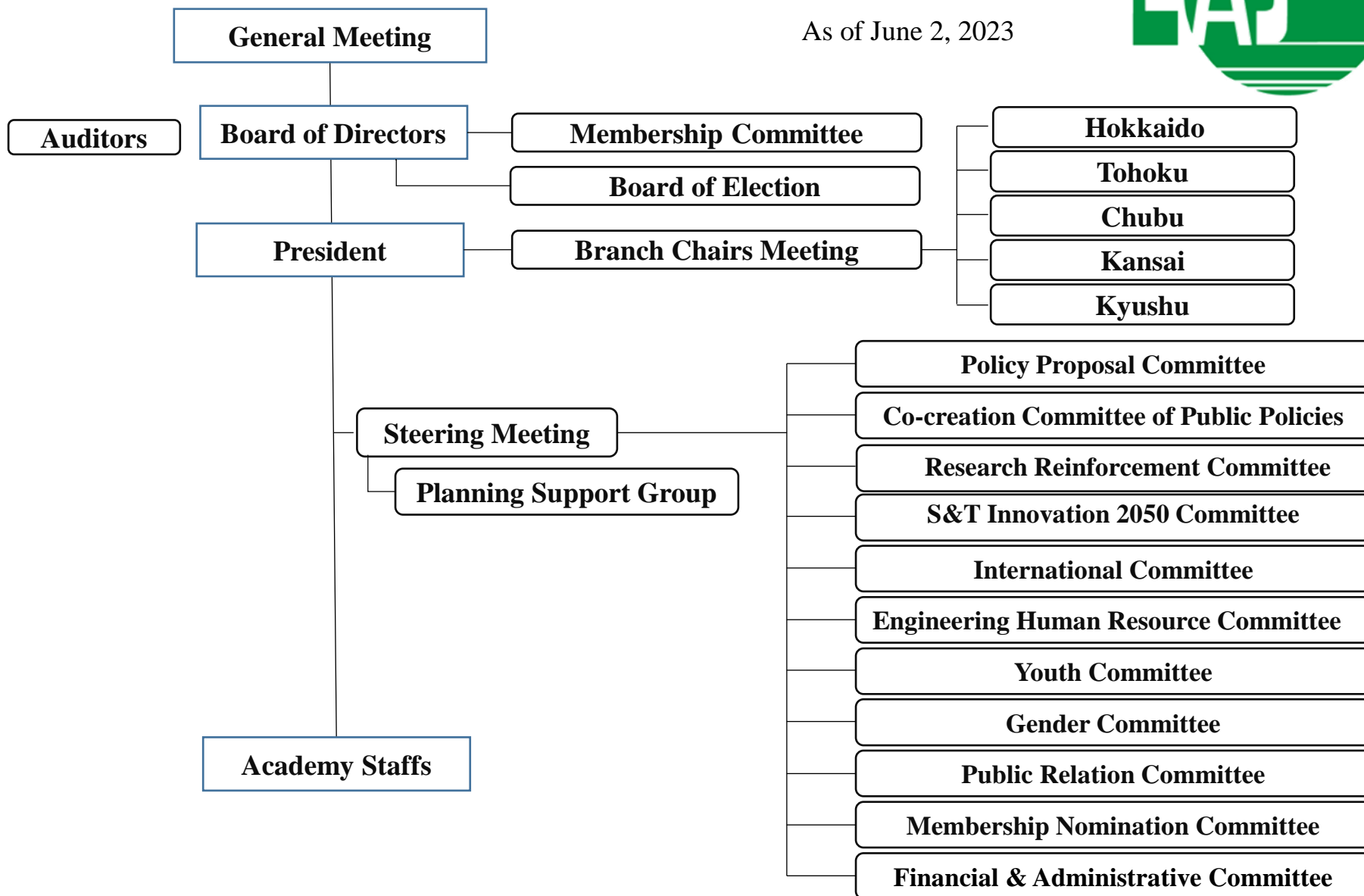


President	: Kobayashi, Yoshimitsu			
Dupty President	: Hishida, Koichi			
Vice President	: Anzai, Yuichiro	Kawai, Maki	Kishimoto, Kikuo	
Senior Executive Director	: Shiroishi, Yoshihiro			
Executive Director	: Morimoto, Koichi	Mutsu, Tetsuya *	* Full Time	
Director	: Amano, Reiko	Emura, Katsumi	Hirao, Akiko	Ishikawa, Ken-ichi
	Kamimoto, Masayuki	Kasahara, Hironori	Kawai, Tomoji	Kobayashi, Shinichi
	Koyama, Tamami	Kuramochi, Takao	Kusumi, Harushige	Masuda, Takao
	Murakami, Masato	Nagasaja, Tetsuya	Nakayama, Tomohiro	Nameki, Yuko
	Ohmura, Naoto	Oki, Taikan	Sekitani, Tsuyoshi	Setoguchi, Tsuyoshi
	Taira, Asahiko	Tsukahara, Kenichi	Yaegashi, Takehisa	Yasunaga, Yuko
	Yasuura, Hiroto			
Auditor	: Tsuji, Atsuko	Hayashi, Hideki		
Supreme Advisor	: Yoshikawa, Hiroyuki	Komiyama, Hiroshi		
President Emeritus	: Abé, Hiroyuki			
Advisor	: Aoyama, Hiroyuki	Hori, Yukio	Ikeda, Shunsuke	Kajiyama, Tisato
	Kamiyama, Shinichi	Kamon, Masashi	Koizumi, Hideaki	Kunitake, Toyoki
	Kyuma, Kazuo	Matsumoto, Yoichiro	Matsuo, Tomonori	Misono, Makoto
	Mitsui, Tsuneo	Miyagi, Mitsunobu	Nagano, Hiroshi	Nakamura, Michiharu
	Nakanishi, M, Tomoko	Taneichi, Takeshi	Taniguchi, Isao	
Advisor/Distinguished Fellow	: Harayama, Yuko			

Organization



As of June 2, 2023



Activities



**Engineering
Experts**
Policy Proposal

**Global
Development**
Inter-academy
Collaboration

***Engineer the Future
for human security and well-being***

Next generation
Human Resource
Development

Local Development
Regional Activity

“Engineer the Future”



5th EAJ Forum Roles of Engineering in the Future – 2022.01.14

Keynote lectures by prominent members and guest speakers were organized just after EAJ Annual Meeting to discuss the cutting edge of engineering and the relationship with society.

EAJ Corporate Members Dialogue

EAJ regularly reviews its activities through exchange of opinions mainly with affiliate companies to strengthen cooperation.

Date	Main Events since 2019
2019.02.18	Human Resource Development Committee Symposium “The Role of University Doctoral Courses for Developing Leaders in Japan” A lecture by former Minister of Education Yoshimasa Hayashi and panel discussions by experts.
2019.03.09	EAJ “Science for Policy Making” Project
2019.10.7	The 9th Academy of Engineering President's Meeting at STS Forum 2019
2020.11.30	23rd Symposium of East-Asia Round Table Meeting (EA-RTM)
2020.12.9	First Dialogue Meeting between Policy Makers and Scientists
2021.5.6	Future Urban Design to Promote Achievement of the SDGs through STI
2021.11.29/26	The Appeal of Starting a Business and Establishing a Business to the Next Innovator
2022.5.6	Symposium on Innovation and Diversity
2022.6.24	Frontiers of Engineering Japan
2022.9.16	EAJ Official Side Event at TICAD8 : Let's Work Together Hand-in-Hand with Africa and Japan for Achieving SDGs by Science/Technology/Innovation(STI)

Policy Proposal



As a unique non-governmental engineering academy, EAJ can propose authentic third opinions for all parties concerned.

Dialogue between Policy Makers and Scientists



2020.12.9 1st Meeting
Science, Technology and Innovation
in the Post-COVID-19 Era

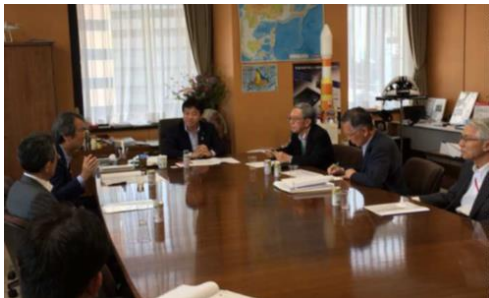


2022.5.17 4th Meeting
Co-creation for Developing Inclusive
STEM Education and Research
Environment

Date	Title
2020.2.11	AEPM Kyoto Statement 2019 Research and Development aiming for Continual Emergence of Innovation toward Human Security and Well-being
2020.11.13	Manufacturing in the Era of the Digital Transformation
2020.11.13	Sustainable Biomass in Asia
2021.2.8	Strategic Promotion of Marine Research
2021.2.8	Science, Technology and Innovation toward Future Society and Advanced Engineering Education
2021.5.13	Mobilizing Science, Technology and Innovation for the Post-COVID Era
2021.5.19	Emergency Recommendation 2021 - Strengthening Support for Graduate Students in the Doctoral Program
2022.11.08	STI Roadmap to Achieve the Sustainable Development Goals – The Road to 2050
2022.02.08	Trends in the Scientific and Technological Development of Human-Machine Symbiosis for a Post-COVID-19 Society” Progress Report
2022.08.25	Promoting STI (Science, Technology and Innovation) for SDGs in Africa - 11 Policy Recommendations from the Engineering Academy of Japan -

Major Destination of Policy Proposals

- Policy Proposals are addressed to a variety of relevant organizations in the government, academia and industry.
- We attach great importance to the discussions with the ministers in charge of science, technology and innovation, for implementation of policy proposals.



Minister TSURUHO
in the Cabinet Office
(center)
President ABE (right)
(June 2017)



Minister SHIBAYAMA
of MEXT (center)
President ABE (left)
(May 2019)



Minister INOUE
in the Cabinet Office
(right)
President KOBAYASHI
(left)
(May 2021)



Minister HAGIUDA
of MEXT (center)
President KOBAYASHI (left)
(May 2021)

Inter-academy Collaboration



Inter-academy Meetings

CAETS

(International Council of Academies of Engineering and Technological Sciences)

2019.06 Stockholm “Next 100 Years”

2020.10 Seoul “Engineering a Better World – Smart Society”

2021.09 Buenos Aires “The Future of Energy”

2022.09 Paris “Engineering a better world – Breakthrough Technologies for Healthcare”

EA-RTM

(East Asia Round Table Meeting of Academies of Engineering)

21st 2018.10 Hangzhou “New Generation of AI”

22nd 2019.12 Osaka “Medicine-Engineering Collaboration”

23rd 2020.11 Seoul “Smart Entertainment”-online

24th 2021.10 China “Microelectromechanical Systems (MEMS)”

25th 2022.11 Tokyo “Prevention and Mitigation of Disasters as Climate Change Adaptation”

AEPM (Academy of Engineering Presidents’ Meeting)

9th 2019.10 Kyoto “EAJ Urgent Proposal 2019”

10th 2021.10 Online “Impact of COVID-19 on Science, Technology and Innovation Policy”

11th 2022.10 Kyoto “Future-Oriented Engineering Education ”

Multi-disciplinary Programs for Fostering Young Leaders

JAFOE

(Japan America Frontiers of Engineering Symposium) by NAE-JST-EAJ

13th 2016.08, Irvine

14th 2018.06, Tsukuba

15th 2021.06, Online

16th 2023.07, Tokyo



ERLEP

(Australia-Japan Emerging Research Leaders Exchange Program)

2009-2017 by ATSE-JSPS-EAJ



The Joint Symposium of ERLEP Trans-Disciplinary Forum by ATSE-EAJ

1st 2017.12, Fukuoka

2nd 2018.12, Melbourne

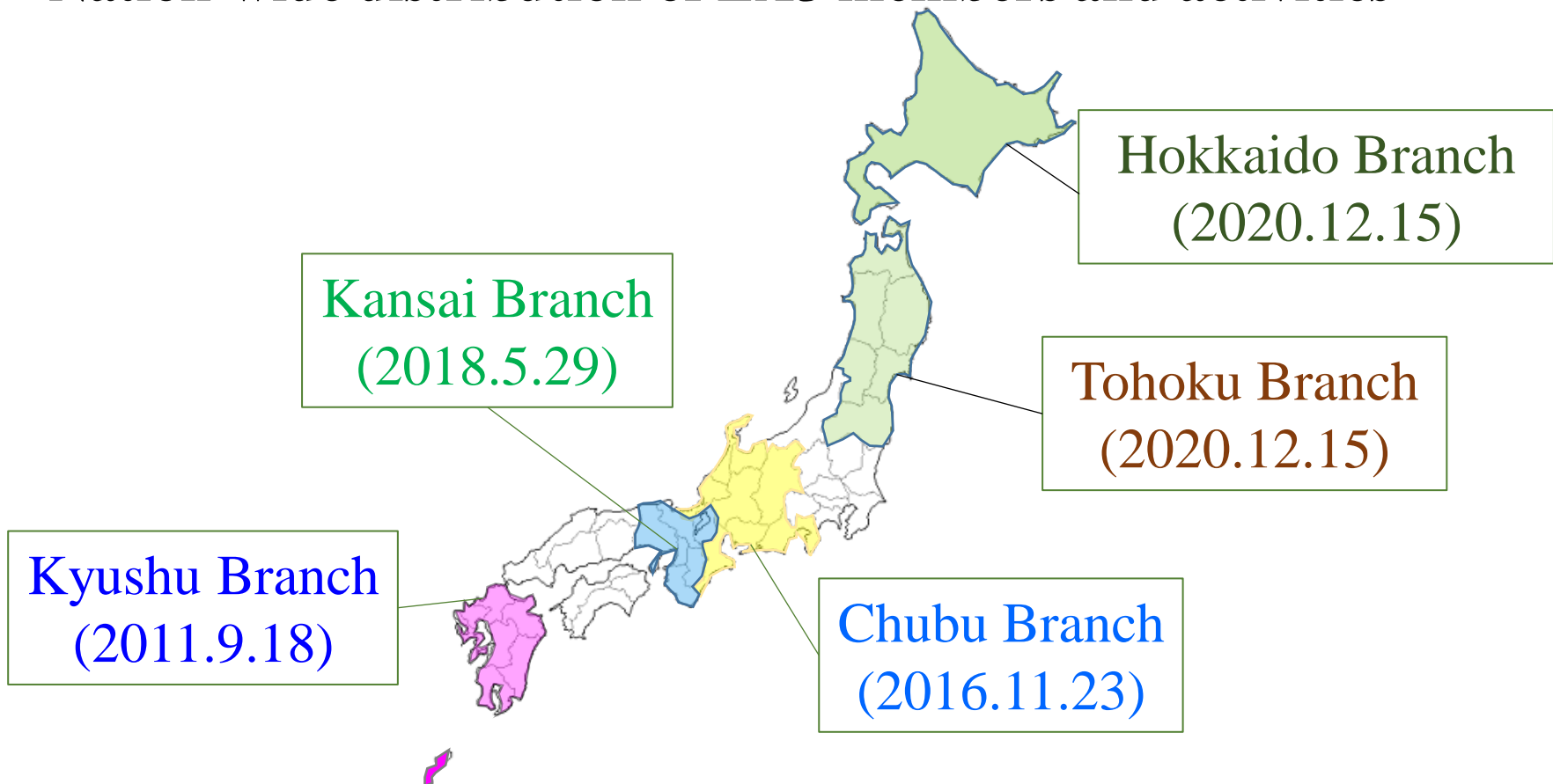
3rd 2019.10, Sapporo

4th 2024 TBD

Regional Activity



- Contribute to regional development
- Local activities for EAJ members
- Nation-wide distribution of EAJ members and activities



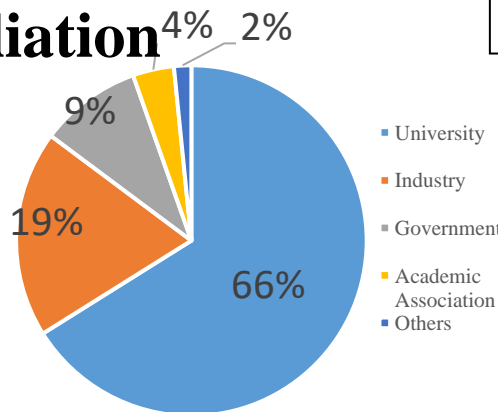
Challenges for Human Resource Development



Increase of Industry Ratio

2017: 17%
2022: 19%

Affiliation



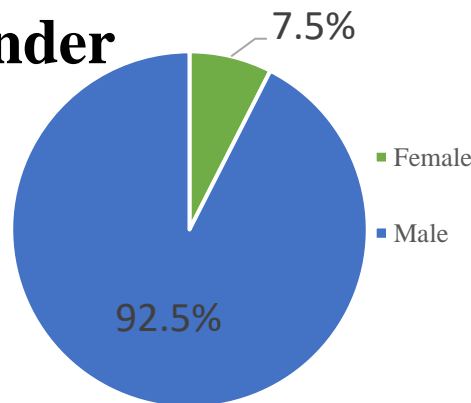
Young Membership

- More young regular members
- Encourage young generation
- Autonomous management

More Female Members

2017: 4%
2022: 7.5%

Gender



Foreign Nationality Member

Invite high-class engineering personnel without Japanese nationality as an EAJ member.