

# Program for Leading Graduate Schools



## Message from the Chair of the Program Committee

The purpose of the Program for Leading Graduate Schools is to foster leaders who can play global roles across the spectrum of the industrial, academic and governmental sectors. It is specifically aimed at developing four kinds of talented people: (1) Those who will be leaders in fields other than research, including industry, public organizations and NPOs, both domestically and internationally; (2) those who, having extensive international and interdisciplinary perspectives, can from a wide overview take the lead in challenging and solving societal issues; (3) those who, having a solid background of proven research capability, can manage projects that drive innovation; and (4) those who can proactively set goals and achieve them by coordinating and uniting various stakeholders both domestically and internationally.

The selected universities have created superb educational programs under it. Students who have worked hard to complete these challenging graduate programs are now going out to take their places in the real world. Paying my deepest respect to the selected universities, I look forward with great anticipation to each of the graduates blazing their paves as global leaders in their chosen sectors of society.



Chair, Program Committee  
JSPS President  
**Yuichiro Anzai**

## Student networking

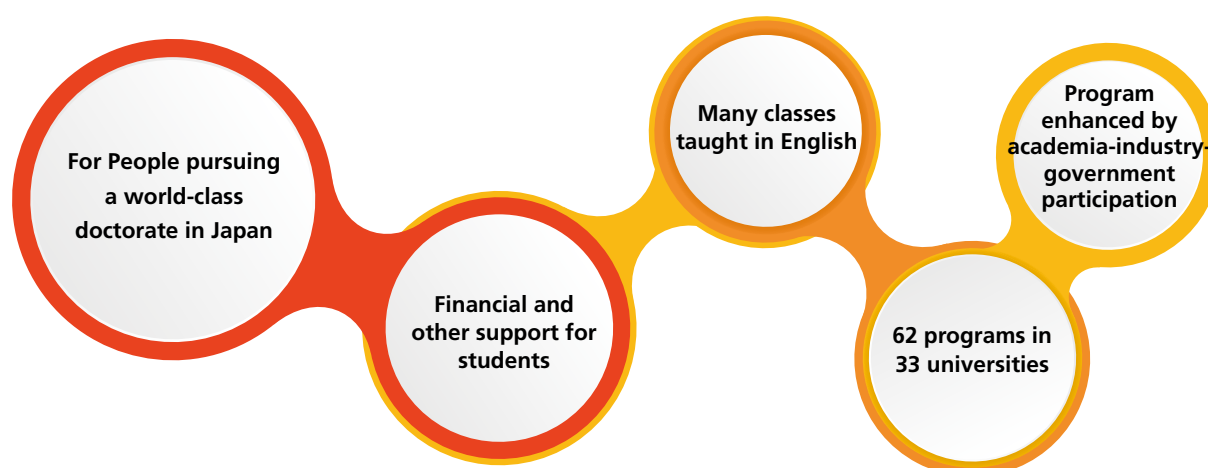


The 3rd Student Meeting of Leading Graduate Schools was held on 20-21 June 2015.

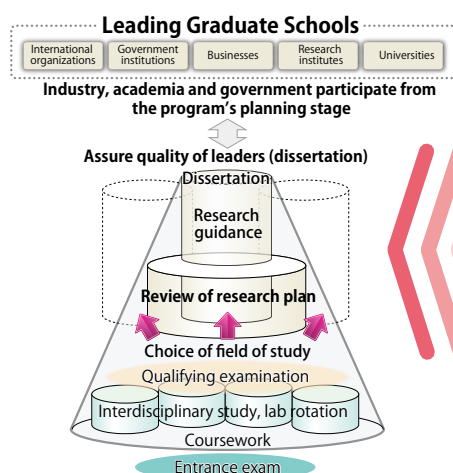
Held once a year, this meeting is organized by students participating in the Leading Graduate School programs. It gives them an opportunity to engage in exchanges with each other across university lines.

## Program for Leading Graduate Schools

The Program for Leading Graduate Schools is carried out by Japan's Ministry of Education, Culture, Sports, Science and Technology (MEXT) for the purpose of making far-reaching reforms to graduate education in Japan with an aim at fostering leaders who will play active global roles in industry, academia and government. As of the FY2013, 33 applying universities had been selected for 62 Leading Graduate School programs, in which about 3,000 graduate students are currently studying. This is a 5-year integrated master's-doctoral program.



## Program Schematic



Tri-sectoral planning enables research training in an international and practical environment

A closely interconnected system of guidance, assembling top-flight faculty of various sectors from Japan and abroad

While cooperating with each other, exceptional students can excel in their own creative research endeavors

A systematic program of education built upon a foundation of knowledge that transcends individual fields and that comprehensively evaluates student capacities

## Types of leaders fostered

This Program aims to foster talented people who will play leading roles in the industrial, academic and governmental sectors across the world. The following three capabilities are considered needed to become such a global leader:

- 1) Ability to collaborate with others while possessing a solid set of values, and to act globally with firm resolve
- 2) Ability to identify issues and independently challenge them by developing hypotheses and applying knowledge in testing them
- 3) Ability to ascertain the essence of matters by applying a wide range of knowledge buoyed by high levels of specialization and international perspective

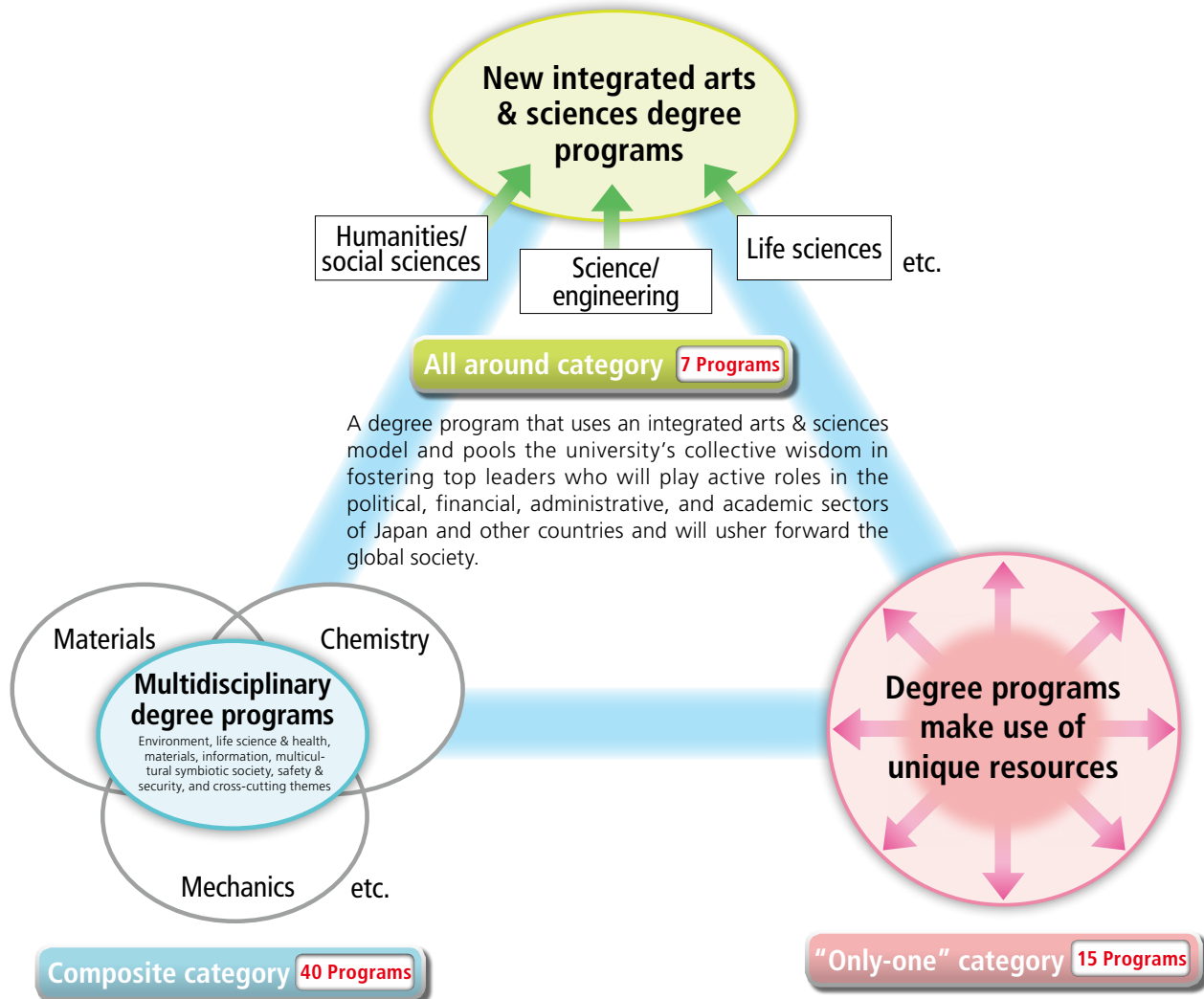
# MEXT's Support for Leading Graduate Schools

## Budget

MEXT provided financial support totaling 69.6 billion yen from 2011 to 2015.

## Three categories of support

There are three categories; all around, composite and "only-one" categories, defined by types of leaders to be fostered and issues to be addressed.

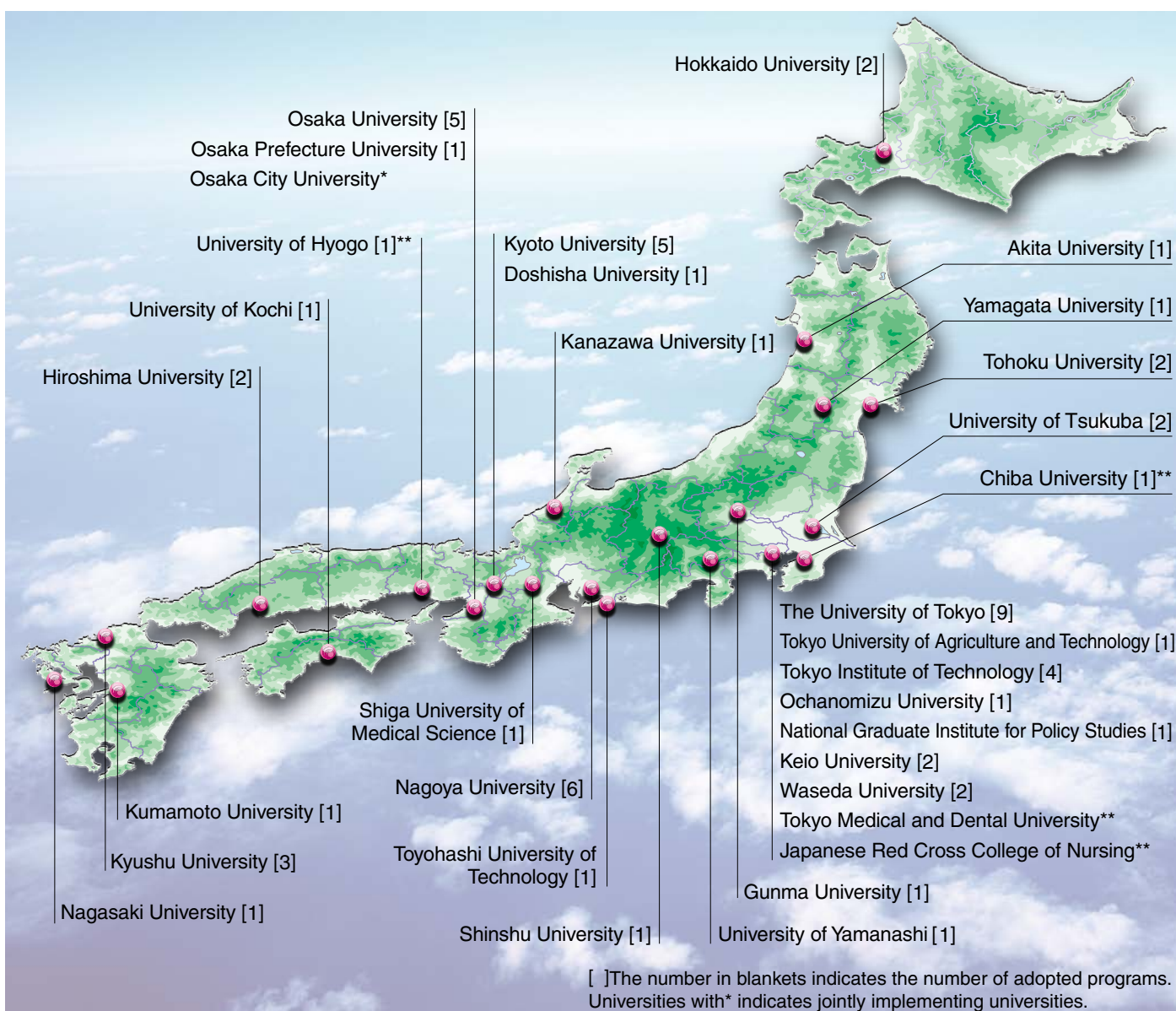


## Benefits of Being in This Programs

- Can receive a doctorate by completing the course
- Opportunities expanded for participating in an exchange and doing an internship at a Japanese or overseas company or research institution
- Financial support can be received (conditions differ by program)
- Education provided by excellent Japanese and overseas researchers
- Environment conducive to Japanese and overseas students working cooperatively while advancing their own independent and creative research
- Curricula that include internships and laboratory rotations
- Chance to gain not only specialized knowledge but to enhance it by acquiring practical knowledge across a spectrum of other fields



# List of Leading Graduate Schools



All All-around category  
Composite Composite category : [Env] Environment [Lif] Life science & health [Mat] Materials [Inf] Information [Sym] Multicultural Symbiotic Society [Saf] Safety & security [Cro] Cross-cutting themes  
Only Only-one category

Institution name	Program Title	Category	URL
Hokkaido University	Fostering Global Leaders in Veterinary Science for Contributing to "One Health"	Only	<a href="http://www.vetmed.hokudai.ac.jp/onehealth/en/">http://www.vetmed.hokudai.ac.jp/onehealth/en/</a>
	Ambitious Leader's Program Fostering Future Leaders to Open New Frontiers in Materials Science	Com [Mat]	<a href="http://ambitious-lp.sci.hokudai.ac.jp/en/">http://ambitious-lp.sci.hokudai.ac.jp/en/</a>
Tohoku University	Inter-Graduate School Doctoral Degree Program on Science for Global Safety	Com [Saf]	<a href="http://g-safety.tohoku.ac.jp/en/">http://g-safety.tohoku.ac.jp/en/</a>
	Interdepartmental Doctoral Degree Program for Multi-dimensional Materials Science Leaders	Com [Mat]	<a href="http://m-dimension.tohoku.ac.jp/eng/">http://m-dimension.tohoku.ac.jp/eng/</a>
Akita University	New Frontier Leader Program for Rare-metals and Resources	Only	<a href="http://akita-u-shigen-nfl.jp/english/index.html">http://akita-u-shigen-nfl.jp/english/index.html</a>
Yamagata University	Innovative Flex Course for Frontier Organic Material Systems (iFront)	Only	<a href="http://ifront.yz.yamagata-u.ac.jp/en/index.html">http://ifront.yz.yamagata-u.ac.jp/en/index.html</a>
University of Tsukuba	Ph.D.Program in Human Biology	Com [Lif]	<a href="http://hbp.tsukuba.ac.jp/en/">http://hbp.tsukuba.ac.jp/en/</a>
	Ph.D.Program in Empowerment Informatics	Com [Inf]	<a href="http://www.emp.tsukuba.ac.jp/english/">http://www.emp.tsukuba.ac.jp/english/</a>
Gunma University	Program for Cultivating Global Leaders in Heavy Ion Therapeutics and Engineering	Only	<a href="http://lphd.dept.showa.gunma-u.ac.jp/en/">http://lphd.dept.showa.gunma-u.ac.jp/en/</a>
Chiba University	Nurture of Creative Research Leaders in Immune System Regulation and Innovative Therapeutics	Only	<a href="http://www.isrit-lgp-chiba.jp/index-e.php">http://www.isrit-lgp-chiba.jp/index-e.php</a>
The University of Tokyo	Graduate Program in Sustainability Science - Global Leadership Initiative	Com [Env]	<a href="http://www.sustainability.k.u-tokyo.ac.jp/">http://www.sustainability.k.u-tokyo.ac.jp/</a>
	Graduate Program for Leaders in Life Innovation (GPLLI)	Com [Lif]	<a href="http://square.umin.ac.jp/gplli/en/index.html">http://square.umin.ac.jp/gplli/en/index.html</a>
	Advanced Leading Graduate Course for Photon Science (ALPS)	Com [Cro]	<a href="http://www.s.u-tokyo.ac.jp/en/current/ALPS/index.html">http://www.s.u-tokyo.ac.jp/en/current/ALPS/index.html</a>
	Materials Education Program for the Future Leaders in Research, Industry, and Technology (MERIT)	Com [Mat]	<a href="http://www.ap.t.u-tokyo.ac.jp/merit/en/index.html">http://www.ap.t.u-tokyo.ac.jp/merit/en/index.html</a>
	Graduate Program for Social ICT Global Creative Leaders	Com [Inf]	<a href="http://www.gcl.i.u-tokyo.ac.jp/en/">http://www.gcl.i.u-tokyo.ac.jp/en/</a>

Institution name	Program Title	Category	URL
The University of Tokyo	Leading Graduate Course for Frontiers of Mathematical Sciences and Physics (FMSP)	Only	<a href="http://fmssp.ms.u-tokyo.ac.jp/index_e.html">http://fmssp.ms.u-tokyo.ac.jp/index_e.html</a>
	Global Leader Program for Social Design and Management	All	<a href="http://gsdm.u-tokyo.ac.jp/en/">http://gsdm.u-tokyo.ac.jp/en/</a>
	Integrated Human Sciences Program for Cultural Diversity	Com [Sym]	<a href="http://ihs.c.u-tokyo.ac.jp/en/">http://ihs.c.u-tokyo.ac.jp/en/</a>
	Graduate Program in Gerontology: Global Leadership initiative for an Age-Friendly Society	Com [Cro]	<a href="http://www.glaifs.u-tokyo.ac.jp/?lang=en">http://www.glaifs.u-tokyo.ac.jp/?lang=en</a>
Tokyo University of Agriculture and Technology	Creation of the Practical Science Leading Graduate School for Green and Clean Food Production	Com [Env]	<a href="http://web.tuat.ac.jp/~leading/?tr=eg">http://web.tuat.ac.jp/~leading/?tr=eg</a>
Tokyo Institute of Technology	Academy for Co-creative Education of Environment and Energy Science (ACEEES)	Com [Env]	<a href="http://www.eae.titech.ac.jp/ACEEES/index-e.html">http://www.eae.titech.ac.jp/ACEEES/index-e.html</a>
	Education Academy of Computational Life Sciences (ACLS)	Com [Lif]	<a href="http://www.acls.titech.ac.jp/en">http://www.acls.titech.ac.jp/en</a>
	Global Human Resource Development Program for Nuclear Safety and Security (U-ATOM)	Only	<a href="http://www.dojo.titech.ac.jp/index-e.html">http://www.dojo.titech.ac.jp/index-e.html</a>
	Academy for Global Leadership (AGL)	All	<a href="http://www.agl.titech.ac.jp/english/">http://www.agl.titech.ac.jp/english/</a>
Ochanomizu University	Fostering long-term creativity and innovation with science and technology disciplines based on Ochanomizu spirit 'Migakazuba' in the next generation of global leaders	Com [Cro]	<a href="http://leading.dc.ocha.ac.jp/leading/en/">http://leading.dc.ocha.ac.jp/leading/en/</a>
National Graduate Institute for Policy Studies	Advanced Program for Global Leaders in the Changing World	Only	<a href="http://www.grips.ac.jp/g-cube/en/">http://www.grips.ac.jp/g-cube/en/</a>
Kanazawa University	Graduate Program in Cultural Resource Management	Com [Sym]	<a href="http://crm.hs.kanazawa-u.ac.jp/en/">http://crm.hs.kanazawa-u.ac.jp/en/</a>
University of Yamanashi	Green Energy Conversion Science and Technology	Only	<a href="http://green.yamanashi.ac.jp/en/">http://green.yamanashi.ac.jp/en/</a>
Shinshu University	Global Leader Program for Fiber Renaissance	Only	<a href="http://www.shinshu-u.ac.jp/project/leading/english/">http://www.shinshu-u.ac.jp/project/leading/english/</a>
Nagoya University	Integrative Graduate Education and Research Program in Green Natural Sciences	Com [Env]	<a href="http://iger.bio.nagoya-u.ac.jp/index_e.php">http://iger.bio.nagoya-u.ac.jp/index_e.php</a>
	Cross-Border Legal Institution Design	Only	<a href="http://www.law.nagoya-u.ac.jp/~leading/en/index-e.html">http://www.law.nagoya-u.ac.jp/~leading/en/index-e.html</a>
	PhD Professional : Gateway to Success in Frontier Asia	All	<a href="http://www.phdpro.leading.nagoya-u.ac.jp/eng/index.html">http://www.phdpro.leading.nagoya-u.ac.jp/eng/index.html</a>
	Leadership Development Program for Space Exploration and Research	Com [Cro]	<a href="http://www.frontier.phys.nagoya-u.ac.jp/index-e.html">http://www.frontier.phys.nagoya-u.ac.jp/index-e.html</a>
	Graduate Program for Real-World Data Circulation Leaders	Com [Inf]	<a href="http://www.rwdc.is.nagoya-u.ac.jp/index-e.php">http://www.rwdc.is.nagoya-u.ac.jp/index-e.php</a>
	Women Leaders Program to Promote Well-being in Asia	Com [Sym]	<a href="http://www.well-being.leading.nagoya-u.ac.jp/eng/">http://www.well-being.leading.nagoya-u.ac.jp/eng/</a>
Toyohashi University of Technology	Innovative program for training brain-science-information-architects by analysis of massive quantities of highly technical information about the brain	Com [Inf]	<a href="http://brain.tut.ac.jp/en/">http://brain.tut.ac.jp/en/</a>
Shiga University of Medical Science	Leading Graduate Program for Reducing the Burden of Non-communicable Disease (NCD) in the Asian Pacific Region	Only	<a href="https://cera.shiga-med.ac.jp/ncdlead/en/index.html">https://cera.shiga-med.ac.jp/ncdlead/en/index.html</a>
Kyoto University	Graduate School of Advanced Leadership Studies, Kyoto University	All	<a href="http://www.gsais.kyoto-u.ac.jp/leading-program">http://www.gsais.kyoto-u.ac.jp/leading-program</a>
	Inter-Graduate School Program for Sustainable Development and Survivable Societies	Com [Saf]	<a href="http://gss-sv00.gss.sals.kyoto-u.ac.jp/english/">http://gss-sv00.gss.sals.kyoto-u.ac.jp/english/</a>
	Training Program of Leaders for Integrated Medical System for Fruitful Healthy-Longevity Society	Com [Lif]	<a href="http://www.lims.kyoto-u.ac.jp/?lang=en">http://www.lims.kyoto-u.ac.jp/?lang=en</a>
	Collaborative Graduate Program in Design	Com [Inf]	<a href="http://www.design.kyoto-u.ac.jp/">http://www.design.kyoto-u.ac.jp/</a>
	Leading Graduate Program in Primatology and Wildlife Science	Only	<a href="http://www.wildlife-science.org/index-en.html">http://www.wildlife-science.org/index-en.html</a>
Osaka University	Cross-Boundary Innovation Program	All	<a href="http://www.cbi.osaka-u.ac.jp/en/">http://www.cbi.osaka-u.ac.jp/en/</a>
	Interdisciplinary Program for Biomedical Sciences	Com [Lif]	<a href="http://www.stn.osaka-u.ac.jp/english/">http://www.stn.osaka-u.ac.jp/english/</a>
	Interactive Materials Science Cadet Program (IMSC)	Com [Mat]	<a href="http://www.msc.osaka-u.ac.jp/en/">http://www.msc.osaka-u.ac.jp/en/</a>
	Humanware Innovation Program	Com [Inf]	<a href="http://www.humanware.osaka-u.ac.jp/en/">http://www.humanware.osaka-u.ac.jp/en/</a>
	Doctoral Program for Multicultural Innovation	Com [Sym]	<a href="http://www.respect.osaka-u.ac.jp/en/">http://www.respect.osaka-u.ac.jp/en/</a>
Hiroshima University	Phoenix Leader Education Program (Hiroshima Initiative) for Renaissance from Radiation Disaster	Com [Cro]	<a href="http://www.hiroshima-u.ac.jp/en/lp/po/ra/">http://www.hiroshima-u.ac.jp/en/lp/po/ra/</a>
	TAOYAKA Program for creating a flexible, enduring, peaceful society	Com [Sym]	<a href="http://taoyaka.hiroshima-u.ac.jp/english/">http://taoyaka.hiroshima-u.ac.jp/english/</a>
Kyushu University	Advanced Graduate Program in Global Strategy for Green Asia	Com [Env]	<a href="http://www.tj.kyushu-u.ac.jp/leading/en/">http://www.tj.kyushu-u.ac.jp/leading/en/</a>
	Development of Global Research Leaders in Molecular Systems for Devices and Establishment of an International Education and Research Center	Com [Mat]	<a href="http://molecular-device.kyushu-u.ac.jp/?lang=en">http://molecular-device.kyushu-u.ac.jp/?lang=en</a>
	Graduate Education and Research Training Program in Decision Science for a Sustainable Society	All	<a href="http://ketsudan.kyushu-u.ac.jp/?lng=e">http://ketsudan.kyushu-u.ac.jp/?lng=e</a>
Nagasaki University	Program for Nurturing Global Leaders in Tropical and Emerging Communicable Diseases	Only	<a href="http://www.tecd.prj.nagasaki-u.ac.jp/en/">http://www.tecd.prj.nagasaki-u.ac.jp/en/</a>
Kumamoto University	HIGO (Health life science: Interdisciplinary and Global Oriented) Program	Com [Lif]	<a href="http://higoprogram.jp/en/">http://higoprogram.jp/en/</a>
Osaka Prefecture University*	Graduate Course for System-inspired Leaders in Material Science (SIMS)	Com [Mat]	<a href="http://sims-program.osakafu-u.ac.jp/eng/">http://sims-program.osakafu-u.ac.jp/eng/</a>
University of Hyogo	Next generation picobiology pioneered by photon science	Only	<a href="http://www.sci.u-hyogo.ac.jp/life/Leading/en/index.html">http://www.sci.u-hyogo.ac.jp/life/Leading/en/index.html</a>
University of Kochi**	Disaster Nursing Global Leader Degree Program	Com [Sym]	<a href="http://www.dngl.jp/">http://www.dngl.jp/</a>
Keio University	Science for Development of Super Mature Society	All	<a href="http://plgs.keio.ac.jp/?lang=en">http://plgs.keio.ac.jp/?lang=en</a>
	Global Environmental System Leaders Program	Com [Env]	<a href="http://gest.sfc.keio.ac.jp/?lang=en">http://gest.sfc.keio.ac.jp/?lang=en</a>
Waseda University	Leading Graduate Program in Science and Engineering, Waseda University	Com [Cro]	<a href="http://www.advdr.sci.waseda.ac.jp/english/">http://www.advdr.sci.waseda.ac.jp/english/</a>
	Graduate Program for Embodiment Informatics	Com [Inf]	<a href="http://www.leading-sn.waseda.ac.jp/en/">http://www.leading-sn.waseda.ac.jp/en/</a>
Doshisha University	Advanced Doctoral Program in Global Resource Management	Com [Sym]	<a href="http://grm.doshisha.ac.jp/index-e.html">http://grm.doshisha.ac.jp/index-e.html</a>

\*Program implemented jointly by Osaka City University.

Please inquire to each program about the contents of recruitment and program.

\*\*Program implemented jointly by University of Hyogo, Chiba University, Tokyo Medical and Dental University, and Japanese Red Cross College of Nursing.

Q

## How can I get started in the Leading Graduate School Program?

**A** You will need to enroll or be enrolled in the graduate school of a university conducting the Leading Graduate School Program and sign up for the program. For information, please inquire directly to the school or program you wish to enter. (See website links on pages 5-6.) An exam is conducted to select the program participants.

\*For information on how to study in Japan, please visit the following website:

MEXT <http://www.studyjapan.go.jp/en/index.html>

JASSO [http://www2.jasso.go.jp/index\\_e.html](http://www2.jasso.go.jp/index_e.html)

Study in Japan Comprehensive Guide <http://www.studyjapan.go.jp/en/index.html>

Q

## What is the percentage of overseas students in the Program?

**A** The number of students as of FY 2015 in the 62 programs carried out by Leading Graduate Schools is as shown in Figure 1. The average percentage of overseas students is 24% with up to 90% in some programs.

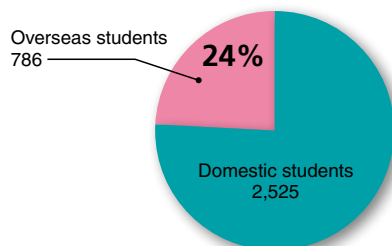


Figure-1 The percentage of overseas students belonging to the Leading Graduate Schools

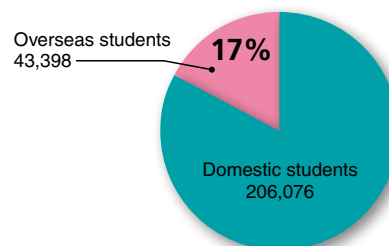


Figure-2 The percentage of overseas students in graduate schools in Japan

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## What kind of financial support can I receive?

**A** Students may receive tuition waivers and stipends from the university. Other financial support, such as TA and RA positions, may also be available.

As the types and amounts of student support depends on each program's policy, please inquire directly to the university.

\*Students receiving a scholarship from the Japanese government (MEXT), Japan Student Services Organization (JASSO), their home country, or a Japanese university may not receive duplicated support or, as a rule, work part time.

Q

## What kind of courses can I take?

**A** It is often the case with Japanese graduate schools that students enroll in a doctoral course after obtaining a master's degree. In the Leading Graduate Schools, however, students may enroll in a doctoral course after obtaining a bachelor's degree, allowing them to matriculate an integrated 5-year master's-doctoral program. Receiving instruction from faculty and mentors of various fields, students enjoy curricula that include internships and fieldwork at companies and research institutions in Japan and abroad. Students in the program work together in friendly rivalry while advancing their own studies. At the end of the course, the students take an exam based on the program's unique criteria.

Q

## I cannot speak Japanese. Can I take courses?

**A** Yes, some courses are taught in English only. In addition, each of the participating university supports overseas students who cannot speak Japanese. For further information, please contact the university.

Q

## Is a degree conferred separately from the graduate school I belong to? Is this a joint degree program?

**A** The doctoral degree is conferred only by the graduate school you belong to. This is not a joint degree program. Either a degree having the program's title is conferred or a notation is made on your diploma that you completed the program.

# Student's Voice

## Excellent support system to focus toward my achievements

D. L. (from Europe)

The Leading Graduate Schools offer a good opportunity to pursue a PhD, in part due to the support for overseas activities. Financial support allows me to travel in-and outside of Japan, and attend the conferences I consider to be of interest. In addition, the program requires us to perform international internships in either academia or business.

## Wider perspectives with the program

S. S. (from Asia)

I went a lecture trip to the Netherlands sponsored by the program. It was a great opportunity to deliver my own ideas and researches to the people with their own backgrounds and specialties. The lessons I earned from the activities helped me there greatly toward efficient communication, therefore getting wider perspectives covering various academic fields.

## Unparalleled experience and opportunity

F. M. (from Africa)

The program not only reinforces my knowledge but also constitutes the best opportunity to experience the rich cultural diversity and wisdom of the faculty and fellow students. I consider this unequalled experience to be a cornerstone to my intellectual and cultural development and a key ingredient to my future career success as I endeavor to become a better leader.



### Contact information for general inquiries about the Program

**University Promotion Division, Higher Education Bureau  
Ministry of Education, Culture, Sports, Science and Technology  
(MEXT)**

3-2-2 Kasumigaseki, Chiyoda-ku, Tokyo 100-8959, JAPAN

Phone: +81-3-5253-4111(ext.3312) Fax: +81-3-6734-3387

[http://www.mext.go.jp/a\\_menu/koutou/kaikaku/hakushikatei/1306945.htm](http://www.mext.go.jp/a_menu/koutou/kaikaku/hakushikatei/1306945.htm)  
(Japanese Only)



### Contact information for inquiries about application screening and evaluation

**Secretariat of the Program Committee**

**University Cooperation Program Division,  
Human Resource Development Program Department,  
Japan Society for the Promotion of Science (JSPS)**

Kojimachi Business Center Building 6F, 5-3-1 Kojimachi, Chiyoda-ku,  
Tokyo 102-0083, JAPAN

Phone: +81-3-3263-1758 Fax: +81-3-3237-8015

<http://www.jsps.go.jp/english/index.html>

<http://www.jsps.go.jp/english/e-hakasekatei/index.html>



### JSPS activities

JSPS posts information about its various activities on its website each quarter. Please see the URL below.

**JSPS Quarterly**

<http://www.jsps.go.jp/english/e-quart/index.html>