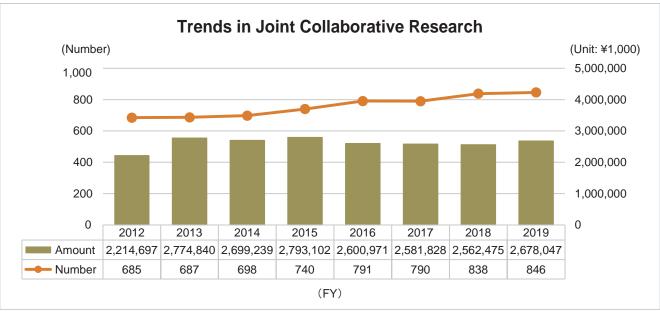
11. Industry-University-Government Collaboration

11-1. Joint Collaborative Research

11-1-1. Trends in Joint Collaborative Research

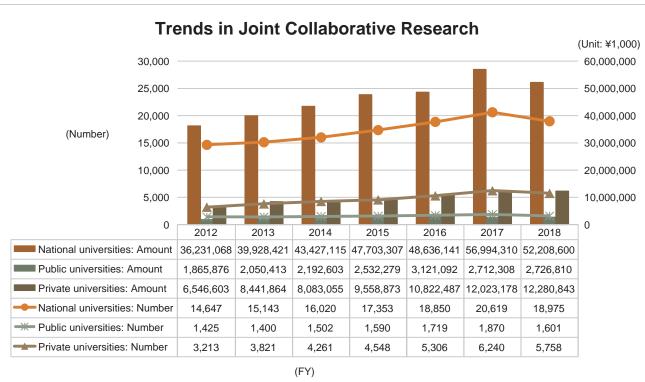
Nationwide, the grant amounts and number of joint collaborative research projects declined in FY 2018. In recent years, the trend for the University has been flat.

◆Kyushu University◆



*Source: Kyushu University Information

◆Nationwide ◆



[·] The data does not include junior colleges, vocational schools, technical colleges or research institutions.

^{*}Source: MEXT, Industry-Academia Collaboration in Higher Education Joint Collaborative Research Outputs by Institution, figures for each fiscal year.

11-1-1. Trends in Joint Collaborative Research (Continued)

◆Comparisons with Other Universities◆

Number

1.797

1.243

1 201

1,098

739

679

666

652

644

518 (2018)

Number of Joint Collaborative Research Projects with the Private Sector Nationwide: National, Public, and Private Universities

University

The University of

Osaka University

Tohoku University

Kyoto University

Kyushu University

Tokyo Institute of

Nagoya University

Hokkaido University

Keio University

Kobe University

Technology

Tokyo

Rank

2

3

4

6

7

8

9

10

Income from Joint Collaborative Research with the Private Sector Nationwide: National, Public, and Private Universities

(2018)

	(01111: 11,000)		
Rank	University	Amount	
1	Osaka University	7,476,569	
2	The University of Tokyo	7,218,749	
3	Kyoto University	4,784,233	
4	Tohoku University	4,114,448	
5	Keio University	2,968,226	
6	Nagoya University	2,875,910	
7	Tokyo Institute of Technology	2,540,448	
8	Kyushu University	2,076,935	
9	Hokkaido University	1,914,997	
10	University of Tsukuba	1,716,137	

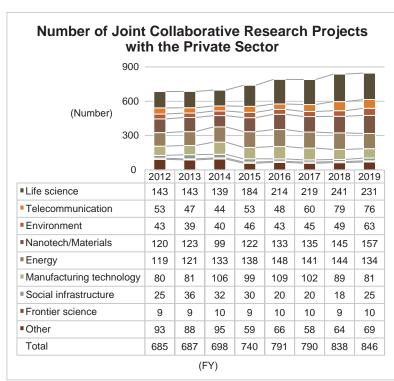
Income per Project from Joint Collaborative Research with the Private Sector Nationwide: National, Public, and Private

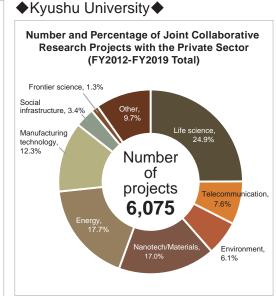
Rank	University	Income per project	Number
1	St. Marianna University School of Medicine	10,526	19
2	International University of Health and Welfare	8,595	20
3	Osaka University	6,015	1,243
4	Fujita Health University	5,698	13
5	Juntendo University	5,667	120
6	Keio University	4,552	652
7	Kyoto University	4,357	1,098
8	Nagoya University	4,318	666
9	Nara Medical University	4,037	36
10	The University of Tokyo	4,017	1,797
29	Kyushu University	2,810	739
			(2019)

(2018)

*Source: MEXT, Industry and Public Organizations in Higher Education Institutions in FY2018

11-1-2. Trends in Joint Collaborative Research (by Field)





In this study, joint collaborative research refers to research jointly by a university or similar institution and industry and private organizations, etc., in which necessary project expenses incurred by the university, etc. are covered by the private organization, etc.

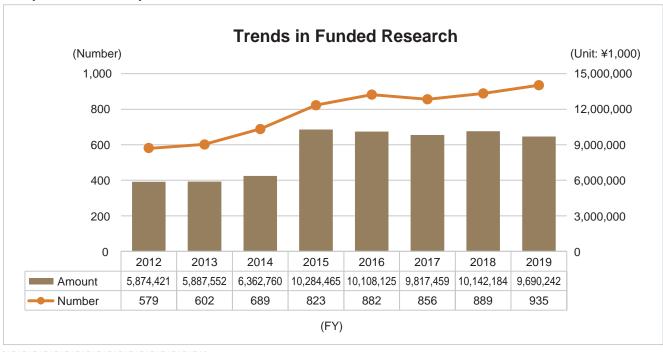
*Source: Kyushu University Information

11-2. Funded Research

11-2-1. Trends in Funded Research

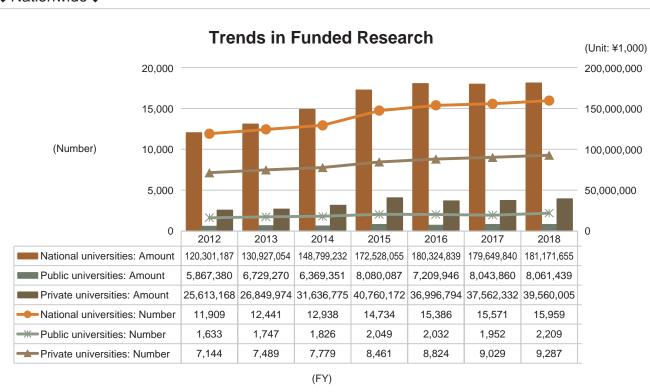
At Kyushu University, there has been an increase in the number of funded research projects.

◆Kyushu University◆



*Source: Kyushu University Information

◆Nationwide ◆



[•] The data does not include junior colleges, vocational schools, technical colleges or research institutions.

^{*}Source: MEXT, Industry-Academia Collaboration in Higher Education Joint Collaborative Research Outputs by Institution, figures for each fiscal year.

11-2-1. Trends in Funded Research (Continued)

Number

247

236

207

199

164

160

149

149

(2018)

◆Comparisons with Other Universities◆

Number of Research Projects Funded by the Private Sector Nationwide: National, Public, and Private Universities

University

Ritsumeikan University

Kindai University

Keio University

Nihon University

Waseda University

Osaka University

Yamagata University

Takushoku University

The University of Tokyo

Tokyo City University

Kyushu University

Rank

2

3

4

5

6

7

8

9

10

Income from Research Funded by the Private Sector Nationwide: National, Public, and Private Universities

(Unit: ¥1.000)

(2018)

Rank	University	Income
1	Keio University	805,284
2	Waseda University	606,029
3	The University of Tokyo	321,507
4	Kyushu University	320,588
5	Ritsumeikan University	283,165
6	Kyoto University	259,492
7	Osaka University	251,864
8	Tokyo Insitute of Technology	247,906
9	Kindai University	236,189
10	Yokohama City University	190,735

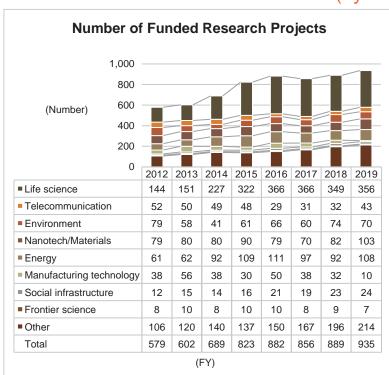
Income per Project from Research Funded by the Private Sector Nationwide: National, Public, and Private Universities

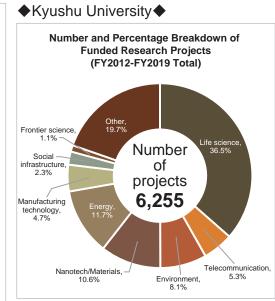
(Unit: ¥1,000)

Rank	University	Income per project	Number
1	Tohoku Medical and Pharmaceutical University	35,372	1
2	The Graduate School of Project Design	25,920	1
3	Toyota Technological Institute	20,647	9
4	National Graduate Institute for Policy Studies	19,084	1
5	International University of Japan	14,567	9
6	Hokkaido Information University	7,790	8
7	Chuo University	6,755	20
8	Aichi University of the Arts	6,385	1
9	Kansai Gakuin University	6,240	7
10	Kitasato University	5,816	49
27	Kyushu University	3,545	114
			(2018)

*Source: MEXT, Industry and Public Organizations in Higher Education Institutions in FY2017

11-2-2. Trends in Funded Research (by Field)





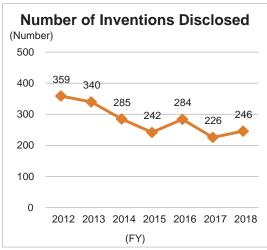
In this study, funded research refers to research to a university by a private sector company, etc., in which, in most cases, the university, etc. alone conducts the research and development, with the expenses incurred being covered by the private organization, etc.

^{*}Source: Kyushu University Information

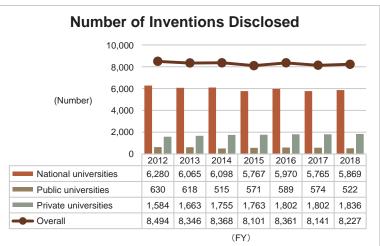
11-3. Intellectual Property

While the number of patent applications has been declining in recent years, Kyushu University saw a slight increase in FY 2018. The number of patents held by Kyushu University has been steadily rising.

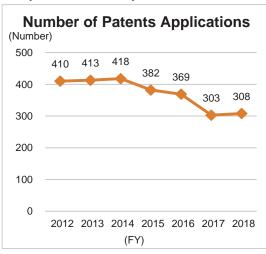
◆Kyushu University◆



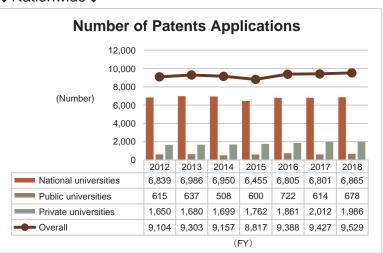
◆Nationwide ◆



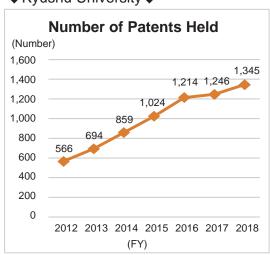
♦Kyushu University



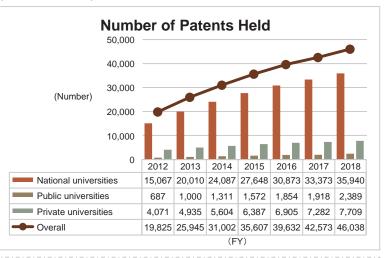
◆Nationwide ◆



◆Kyushu University◆



◆Nationwide ◆



*Source: MEXT, Industry-Academia Collaboration in Higher Education Institutions Joint Collaborative Research Outputs by Institution, figures for each fiscal year. (Number of Inventions Disclosed: Kyushu University Website > AiRIMaQ Academic Research / Industry-University Collaboration Headquarters homepage > Performance, Regulations, Forms > Industry-University-Government Collaboration Performance)

11-3. Intellectual Property (Continued)

Nationwide, recent years have seen an upward trend in the number of patents licensed, the amount of income from licensing patents, and the number of university venture business created. At Kyushu University, income from licensing patents, etc. rose sharply in FY2015, and the number of patents licensed, etc. rose sharply in FY2017.

Number of Patents Licensed, etc.

2014

8,554

210

2,038

10,802

(FY)

2015

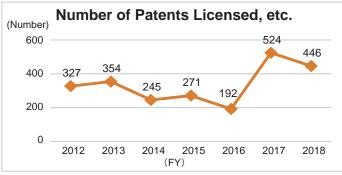
9,722

245

1,905

11,872

◆Kyushu University◆



20.000 16,000 12,000

> 8,000 4.000 0

2012

7,204

163

1,441

8,808

2013

7,893

230

1,733

9,856

Number of Patents Licensed ,etc. (including overseas)

Rank	University	Number
1	The University of Tokyo	3,725
2	Kyoto University	1,695
3	Kanto Gakuin University	1,084
4	Osaka University	852
5	Hokkaido University	754
6	Tokyo Institute of Technology	649
7	Nagoya University	615
8	Tohoku University	573
9	Kyushu University	446
10	Shinshu University	346

◆Nationwide ◆

(Number)

(2018)

2018

13,686

477

2,839

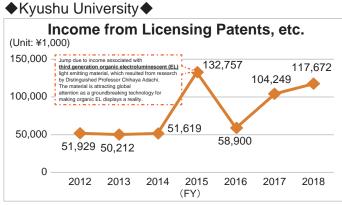
17,002

Overall

National universities

Public universities

Private universities



Income from Licensing Patents, etc. (including overseas) (Unit: ¥1,000)

2017

12,736

358

2,704

15,798

2016

10,925

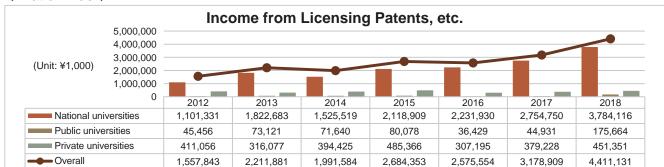
351

2,556

13,832

Rank	University	Income
1	The University of Tokyo	1,107,467
2	Kyoto University	617,243
3	Osaka University	392,559
4	Nagoya University	309,421
5	Tokyo Institute of Technology	220,407
6	Shinshu University	139,908
7	Yokohama City University	119,658
8	Kyushu University	117,672
9	Mie University	109,046
10	Tohoku University	99,257
		(2018)

◆Nationwide ◆



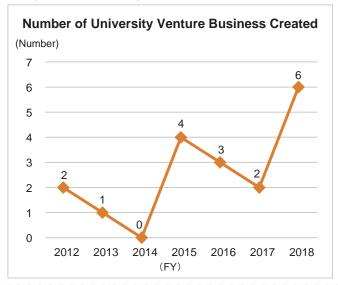
· In this survey, "number of patents licensed,etc." and "amount of income from licensing patents,etc." refers to the number of patent rights licensed or assigned (including at the "right to obtain a patent" stage) and the amount of income received as a result.

(FY)

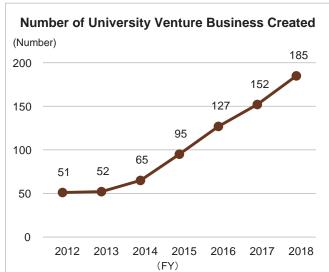
^{*}Source: MEXT, Industry-Academia Collaboration in Higher Education Joint Collaborative Research Outputs by Institution, figures for each fiscal year.

11-3. Intellectual Property (Continued)

◆Kyushu University◆



◆Nationwide ◆



*Source:

Kyushu University: Kyushu University Research Strategy Data Collection, 2020

Nationwide: MEXT, "Joint Research Outputs by Institution" Status of Industry-Academia Collaboration in Higher Education