

The first Japan Doctoral Human Resource Profiling

Survey result(Preliminary Report)

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National Institute of Science and Technology Policy



Mitsubishi UFJ Research and Consulting Co., Ltd.

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1. Outline of survey

(1) Object person

All people who completed doctor's course in fiscal year 2012 (April 1, 2012 – March 31, 2013) at all universities that have doctor's course.

This survey does not consider whether one acquired doctor's degree or not, while it covers those who withdrew from school with necessary credits to graduate.

- 1. This survey covers students from abroad and adult student's those who complete the doctor's course.
- 2. In this survey, doctor's course means the latter term when doctor's course is divided into the former term and the latter term.
 - This survey also covers the course for three years that corresponds to doctor's course when the course is not divided into former term and at latter one
 - On medicine, dentistry, pharmacology and veterinary science, this survey covers the course that corresponds to the doctor's course for four years.
- 3. This survey does not cover the persons who acquired doctor's degree by way of dissertation (so-called *thesis doctor*). And it does not cover the persons who withdrew from the university after getting necessary credits before fiscal year 2012 and acquired the doctor's degree by dissertation by the end of fiscal year 2012.

(2) Survey contents

Object person's basic information (name, sex, major field, and completed doctor's course, etc.), working situation, research situation, and home situations, etc.

(3) Survey time

Object persons are expected to answer on the situation as of November 1, 2014.

(4) Survey method

As a rule, the answer was requested from the university to the object persons by E-mail and the telephone, etc. The object persons were asked to access the specific WEB site for response. On the request from respondents, submission of the survey slip by way of mail posting or E-mail was also possible. Academic societies and the economic organizations also requested the object person to answer this survey.

(5) Survey period

November 1, 2014 – December 26, 2014

2. Result of survey

(1) Result of response of this survey

The number of the object people, requests and respondents are as follows:

- The number of the object people: the total number of those who complete the doctor's course in 2012 fiscal year reported from the universities.
- The number of requests: the number of the persons who were requested to answer from the universities
- The number of responses: the sum of valid responses and invalid responses

Figure1 Answer situation of survey

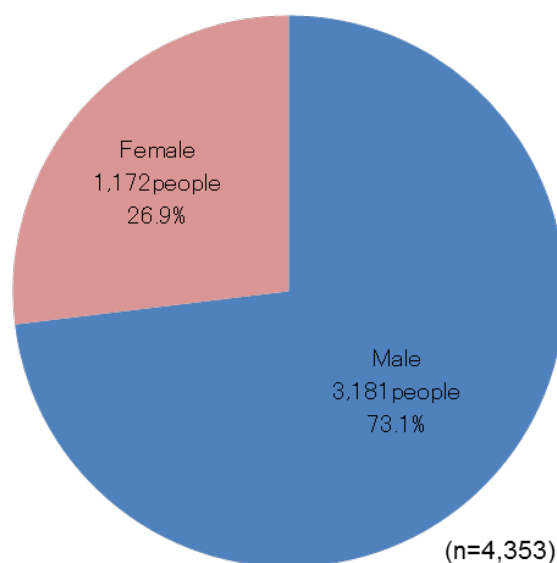
	Num. of completed doctor's course	Num. of the object people	Num. of requests	Num. of valid	Num. of invalid
Total	16,445	15,479	13,276 (85.8%)	4,353 (28.1%)	886
Installation subject					
National	-	10,882	9,022 (82.9%)	2,733 (25.1%)	-
Public	-	891	801 (89.9%)	260 (29.2%)	-
Private	-	3,134	2,896 (92.4%)	875 (27.9%)	-

※ As for 845 responses (out of 886 invalid responses) that replied that they completed the doctor's course on fiscal year 2011 or before, their completion fiscal year is now being reconfirmed through the universities. This preliminary report reports on 4,353 valid responses.

The attribute of the respondent

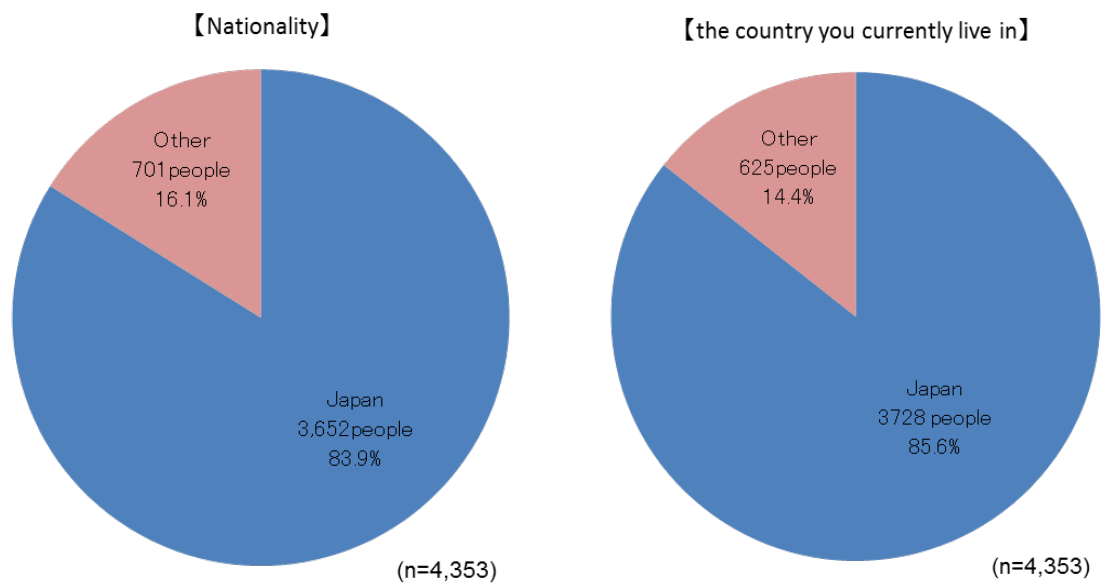
① Gender

Figure 2 Gender



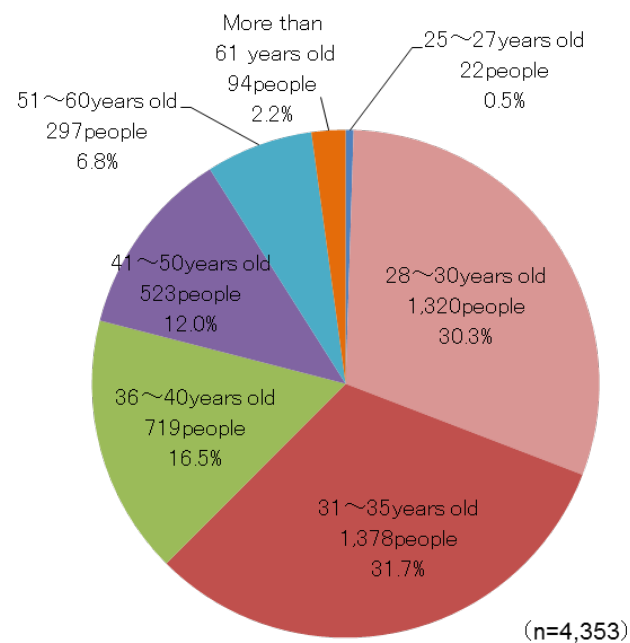
② The nationality and the country you currently live in

Figure 3 The nationality and the country you currently live in



③ The age (The year you were born)

Figure 4 The age



④ The prefecture you currently live

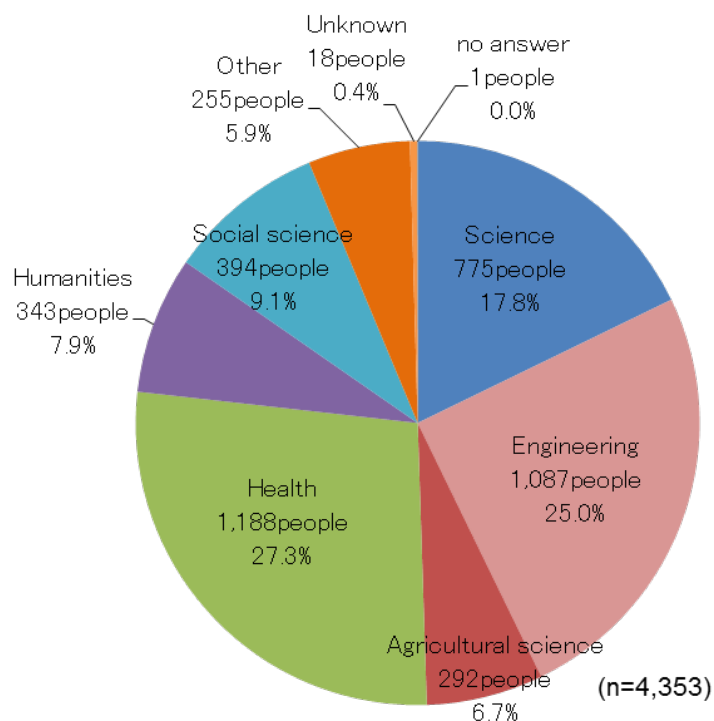
Figure 5 The prefecture you currently live

prefectures	(people)	(%)	prefectures	(people)	(%)
Hokkaido	112	3.0	Shiga Pre.	37	1.0
Aomori Pre.	26	0.7	Kyoto	187	5.0
Iwate Pre.	27	0.7	Osaka	287	7.7
Miyagi Pre.	86	2.3	Hyogo Pre.	174	4.7
Akita Pre.	23	0.6	Nara Pre.	29	0.8
Yamagata Pre.	12	0.3	Wakayama Pre.	10	0.3
Fukushima Pre.	30	0.8	Tottori Pre.	11	0.3
Ibaraki Pre.	150	4.0	Shimane Pre.	19	0.5
Tochigi Pre.	34	0.9	Okayama Pre.	50	1.3
Gunma Pre.	37	1.0	Hiroshima Pre.	61	1.6
Saitama Pre.	157	4.2	Yamaguchi Pre.	26	0.7
Chiba Pre.	157	4.2	Tokushima Pre.	27	0.7
Tokyo	757	20.3	Kagawa Pre.	14	0.4
Kanagawa Pre.	365	9.8	Ehime Pre.	17	0.5
Niigata Pre.	45	1.2	Kochi Pre.	8	0.2
Toyama Pre.	23	0.6	Fukuoka Pre.	107	2.9
Ishikawa Pre.	44	1.2	Saga Pre.	12	0.3
Fukui Pre.	13	0.3	Nagasaki Pre.	29	0.8
Yamanashi Pre.	16	0.4	Kumamoto Pre.	31	0.8
Nagano Pre.	46	1.2	Oita Pre.	25	0.7
Gifu Pre.	36	1.0	Miyazaki Pre.	15	0.4
Shizuoka Pre.	68	1.8	Kagoshima Pre.	25	0.7
Aichi Pre.	197	5.3	Okinawa Pre.	18	0.5
Mie Pre.	46	1.2	No answer.	2	0.1
			Total	3,728	100.0

(6) About the situation at the time of Doctoral course enrollment.

① Research field

Figure 6 Research field



② Doctoral course enrollment period

Figure 7 Enrollment period of a Doctoral course

(n=4,353)

Doctoral period enrollment division	number of answer	rate
Less than 1 year	1人	0.0%
1year	47人	1.1%
2years	208人	4.8%
3years	2,180人	50.1%
4~5years	1,470人	33.8%
6~10years	427人	9.8%
More than 10 years	20人	0.5%

③ The academic degree obtainment situation of the doctorate

Figure 8 Obtainment of degree

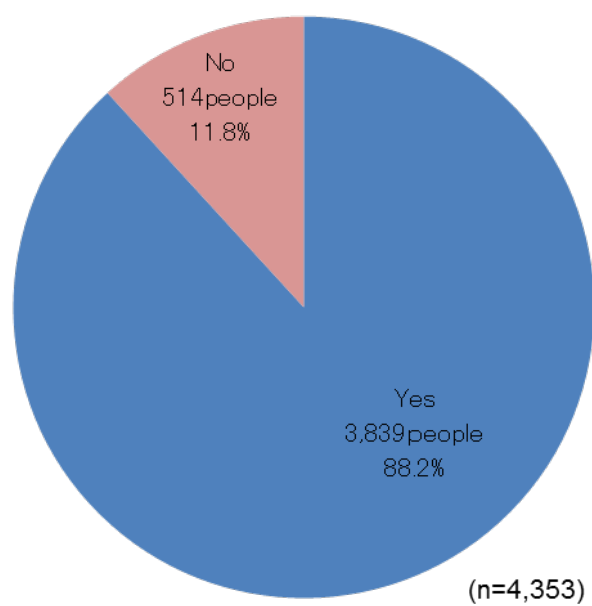


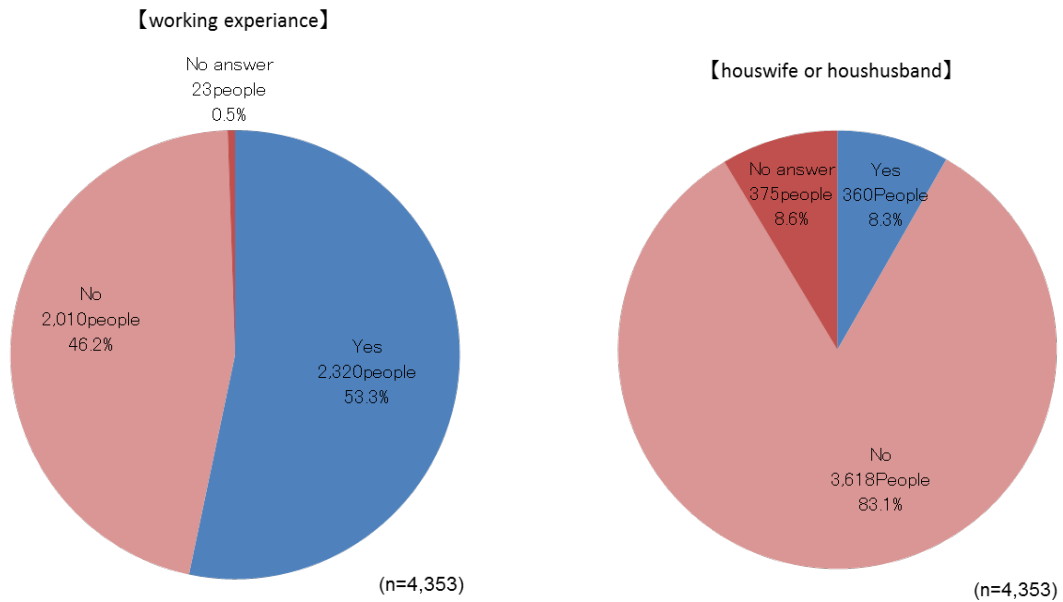
Figure 9 Date degree obtained

(n=4,353)

Academic degree acquisition year division	number of answer	rate
2009	1	0.0%
2010	2	0.0%
2011	1	0.0%
2012	785	18.0%
2013	2,887	66.3%
2014	163	3.7%
No answer	514	11.8%

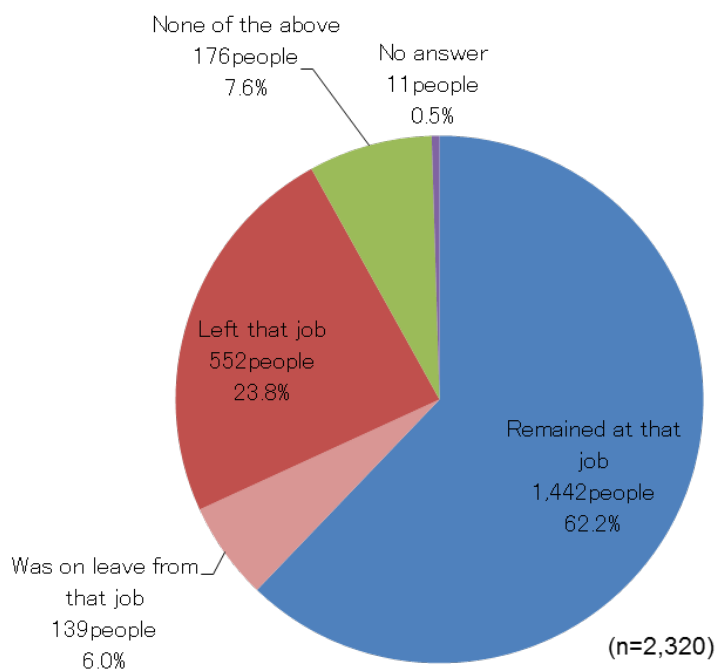
④ The experience of a working adult and full-time homemaker before you enrolled in a doctoral course

Figure 10 The experience of a working adult and full-time homemaker before you enrolled in a doctoral course



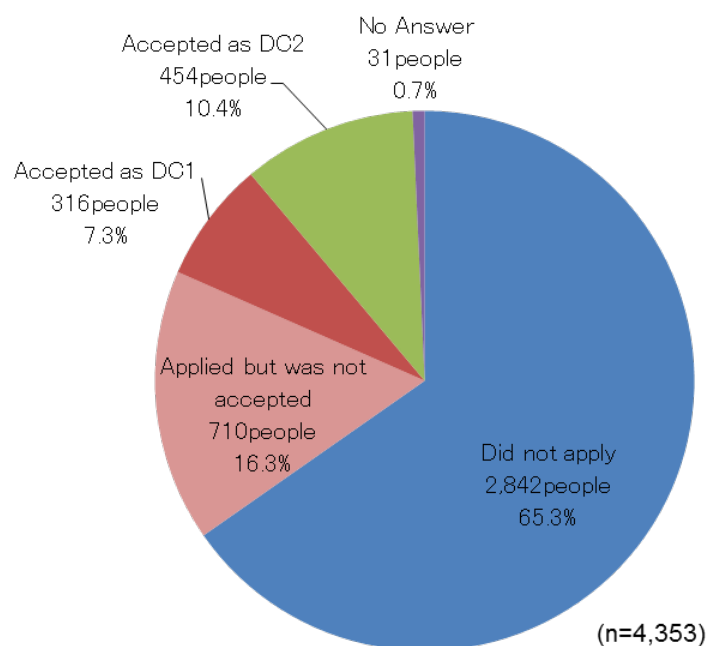
⑤ The work continuation situation in enrollment period of a Doctoral course

Figure 11 The work continuation situation in enrollment period of a Doctoral course



⑥ The adoption situation of the Japan Society for the Promotion of Science in enrollment period of a Doctoral course

Figure 12 The adoption situation of the Japan Society for the Promotion of Science
in enrollment period of a Doctoral course



⑦ The total loans at the time you completed Doctoral course

Figure 13 The total loans

total loans division	number of answer	rate	(The removed percentage 「0 yen」and「No answer」)
0 yen	2,019	46.4%	
1-Less than 1,000,000 yen	81	1.9%	5.2%
1,000,000-less than 2,000,000 yen	209	4.8%	13.3%
2,000,000-less than 5,000,000 yen	637	14.6%	40.7%
5,000,000-less than 10,000,000 yen	532	12.2%	34.0%
10,000,000-less than 19,990,000 yen	101	2.3%	6.4%
More than 20,000,000 yen	7	0.2%	0.4%
No answer	767	17.6%	

⑧ The situation of a tuition exemption

Figure 14 Tuition exemption

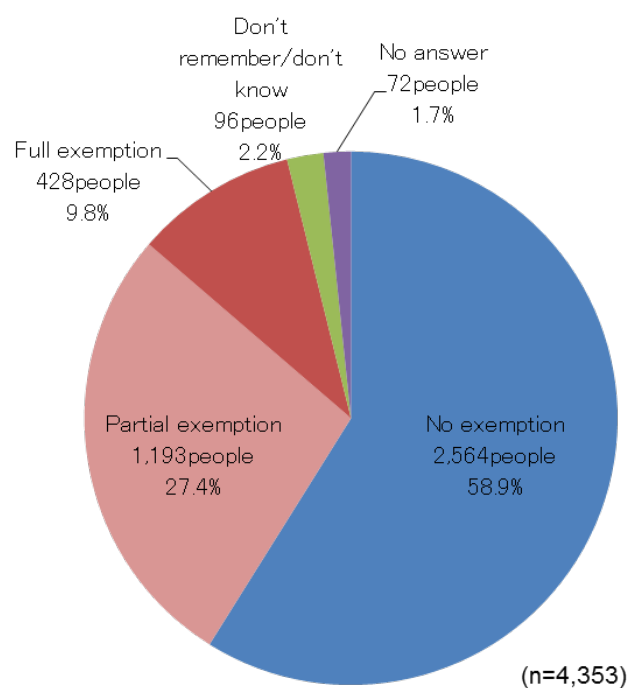


Figure 15 Total amount of tuition exemption

(n=4,353)

Total amount division of tuition exemption	number of answer	rate
0 yen	38	0.9%
1-Less than 1,000,000 yen	724	16.6%
1,000,000-less than 2,000,000 yen	500	11.5%
2,000,000-less than 5,000,000 yen	147	3.4%
5,000,000-less than 10,000,000 yen	7	0.2%
10,000,000-less than 19,999,999 yen	7	0.2%
More than 20,000,000 yen	2	0.0%
No answer	2,928	67.3%

⑨ Mentor

Figure 16 Mentor (Most mentor)

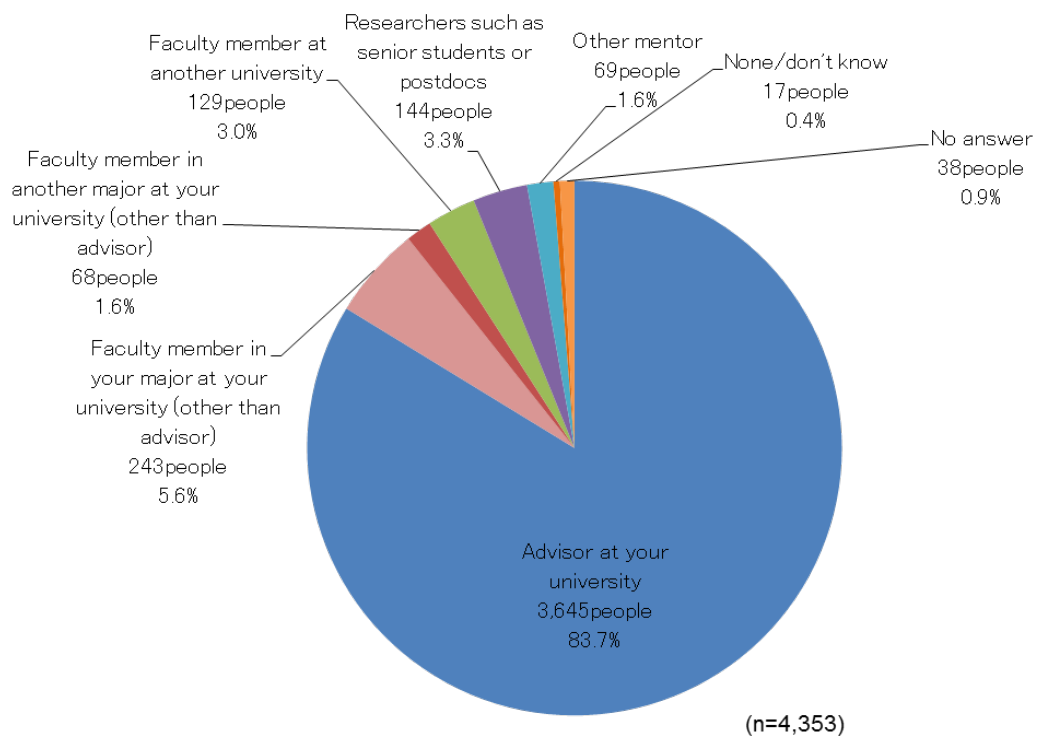


Figure 17 Mentor (second-most mentor)

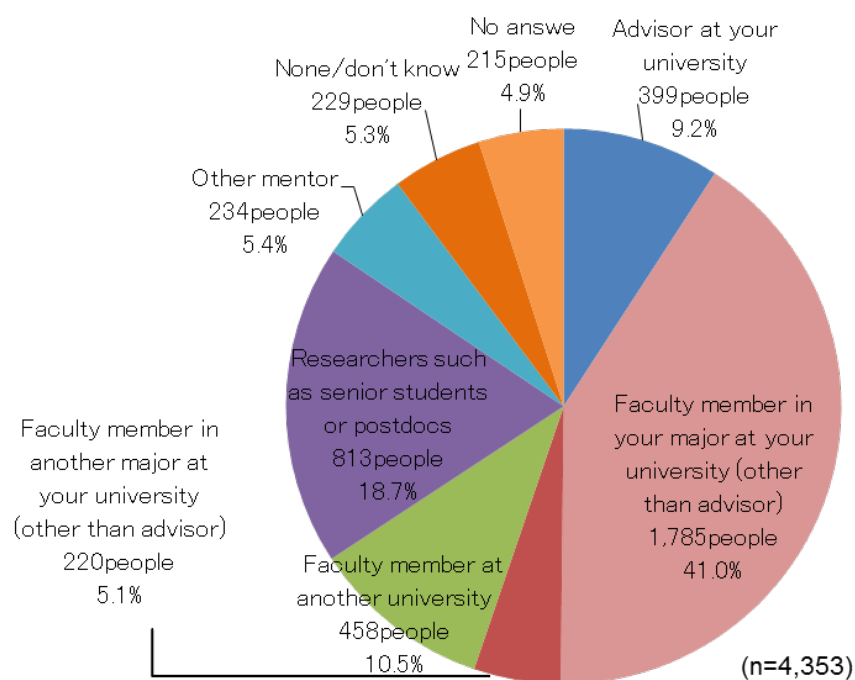


Figure 18 Guidance frequency of most mentor

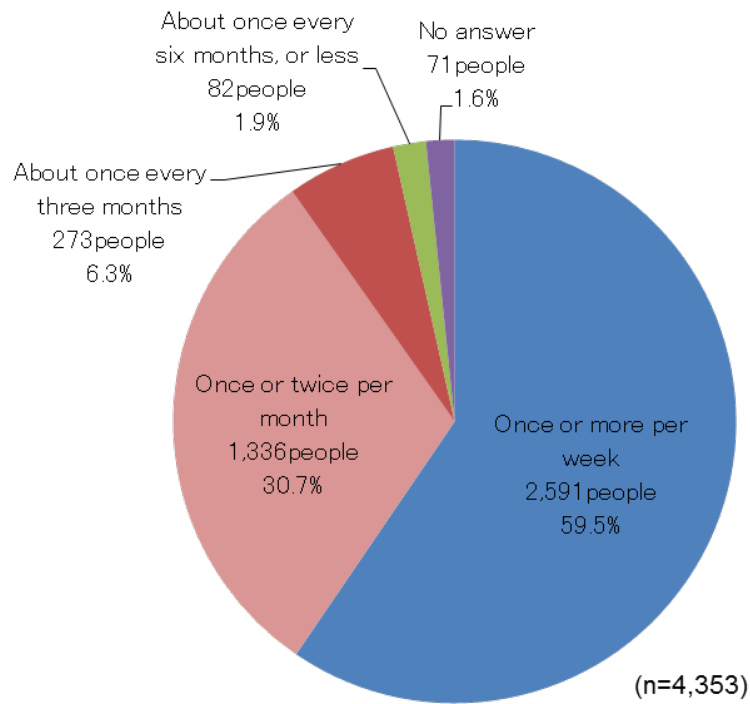
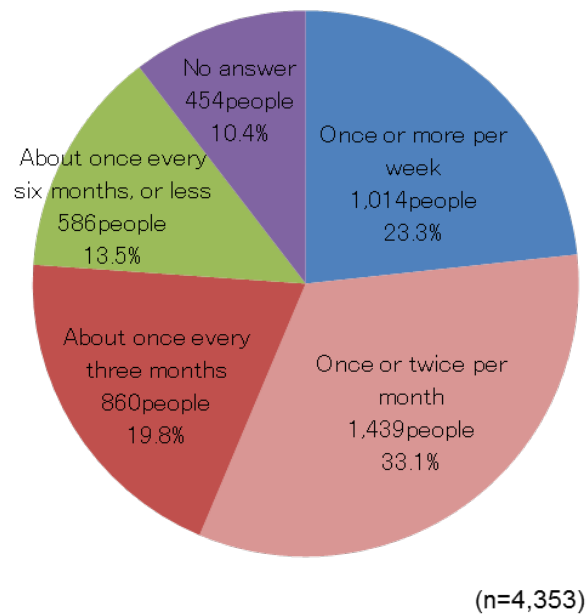


Figure 19 Guidance frequency of second-most mentor



⑩ About Internships

Figure 20 Presence of internship experience

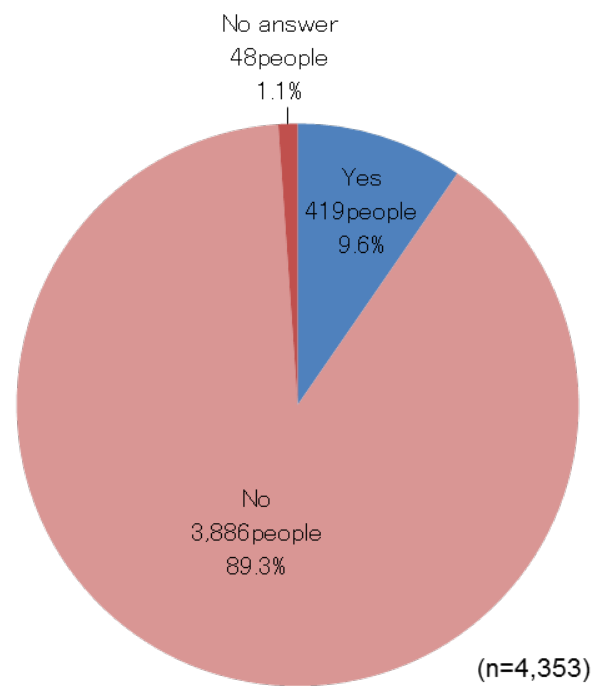
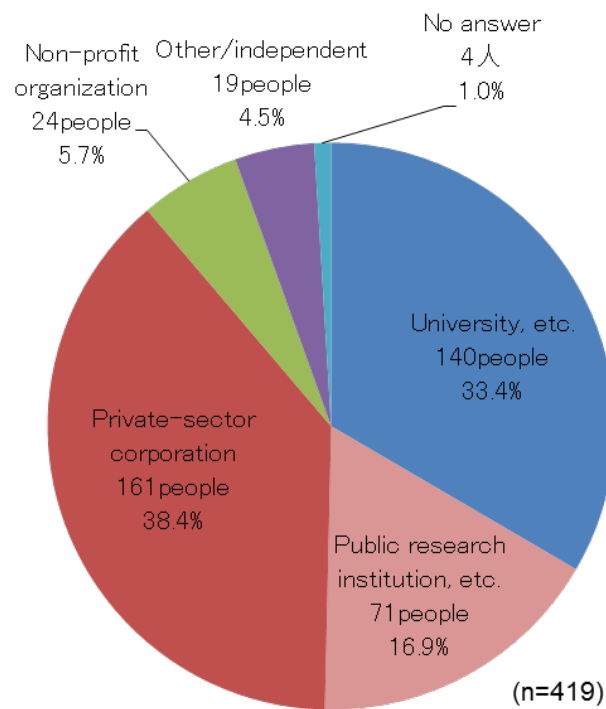
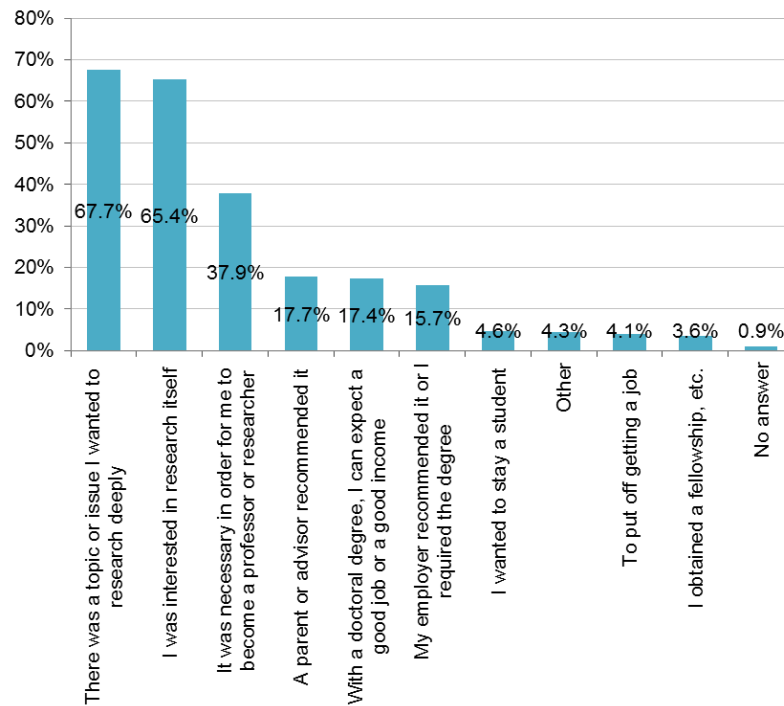


Figure 21 Interned institutions



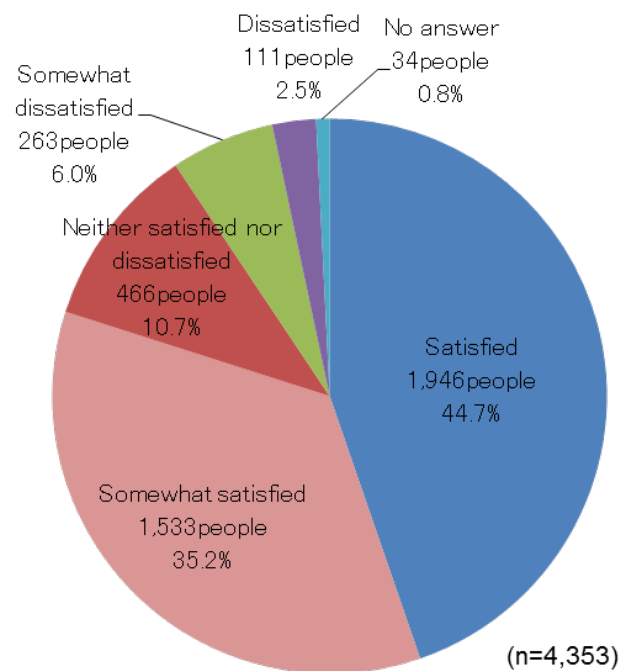
⑪ Reason for taking doctoral course

Figure 22 Reason for taking doctoral course (multiple responses)



⑫ Level of satisfaction

Figure 23 Level of satisfaction

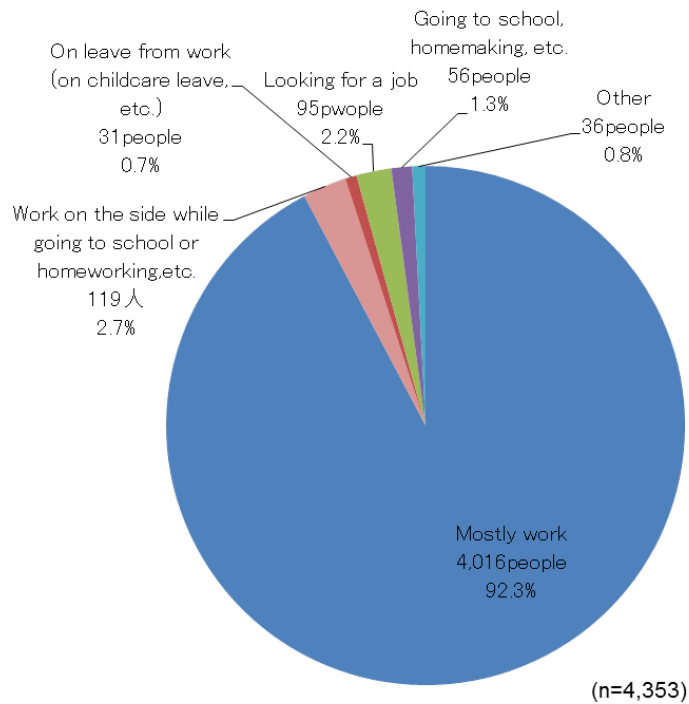


(7) About job

① Current job

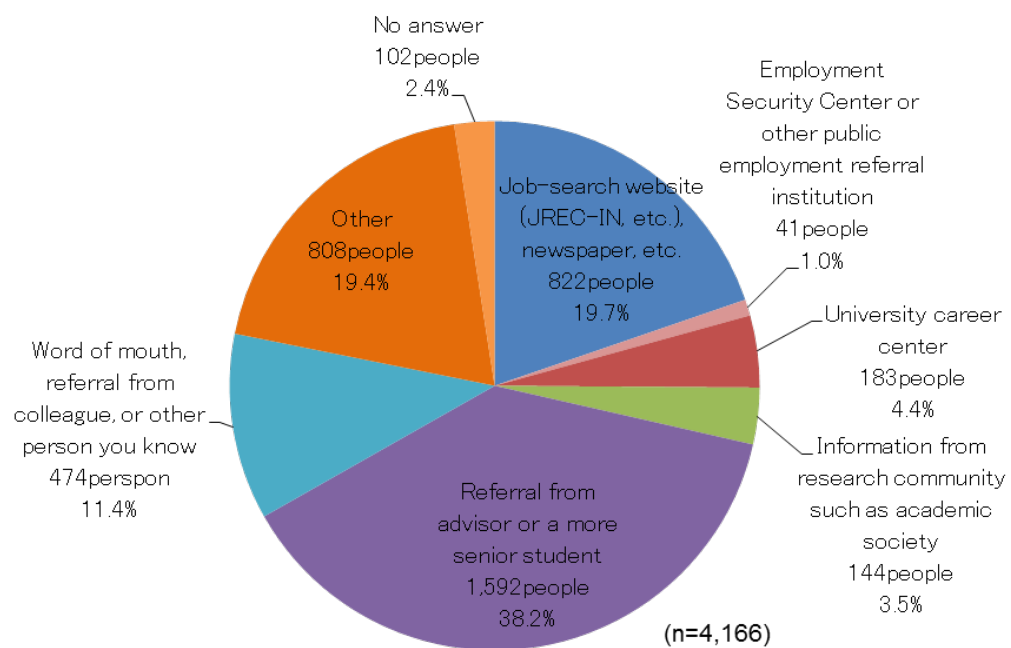
1) The state of Current job

Figure 24 The state of Current job



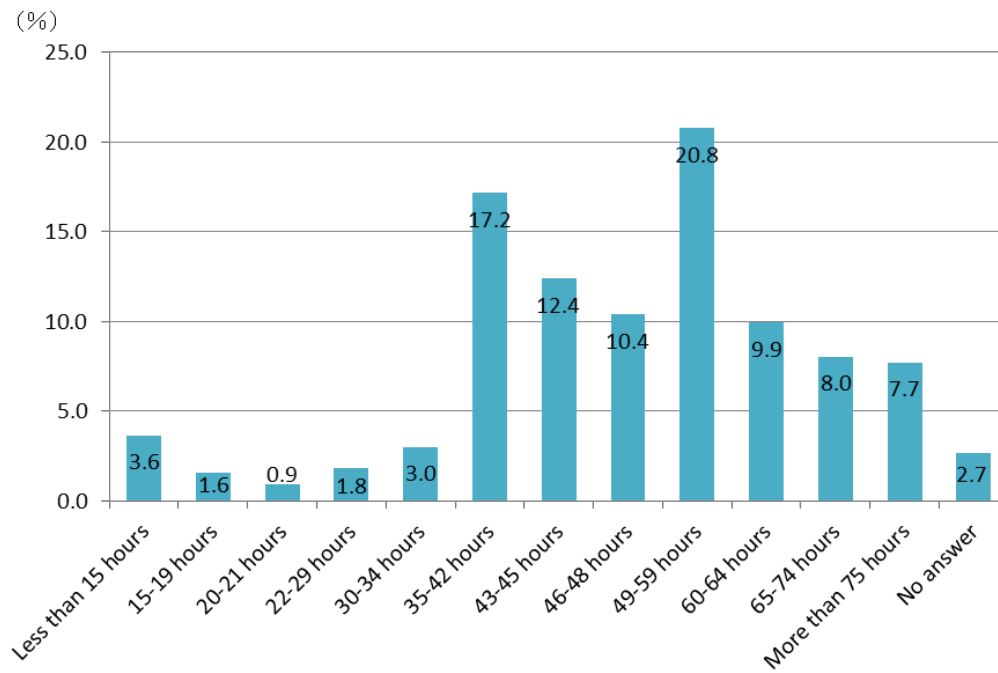
2) Job opportunity information

Figure 25 Job opportunity information



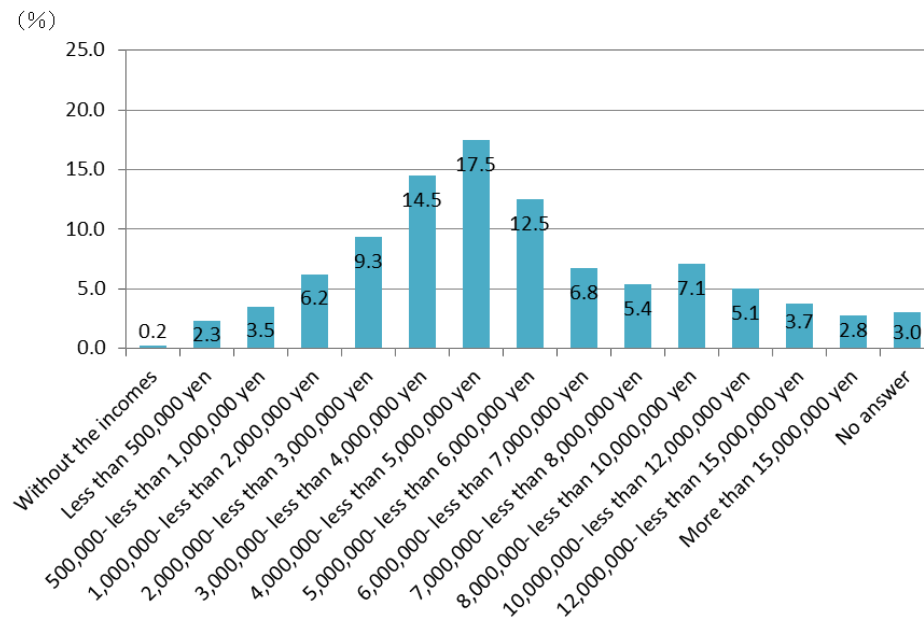
3) Work hours

Figure 26 Work hours



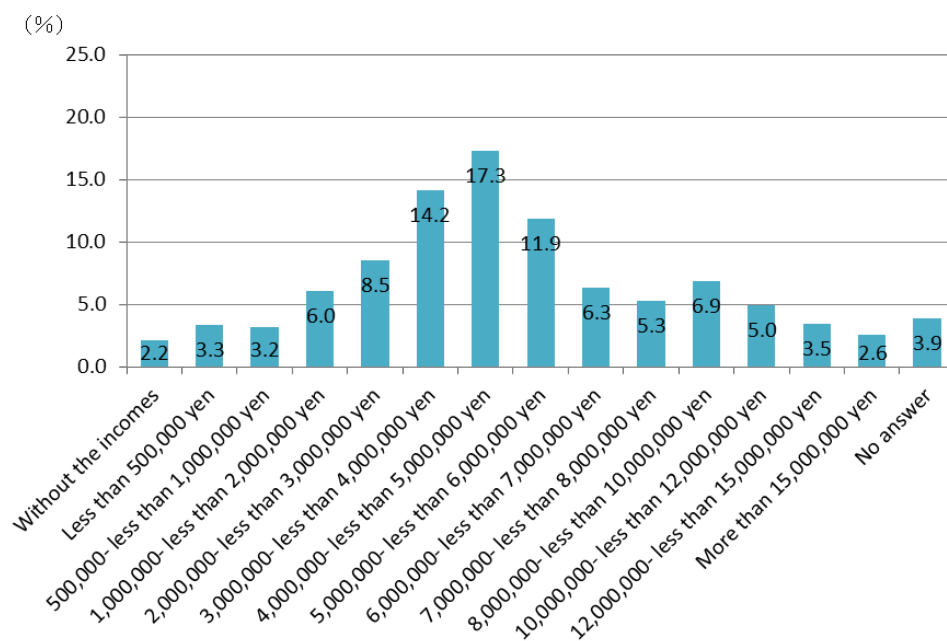
4) Total income (includes remittances, asset income, social insurance, etc)

Figure 27 Total income



5) The labor income

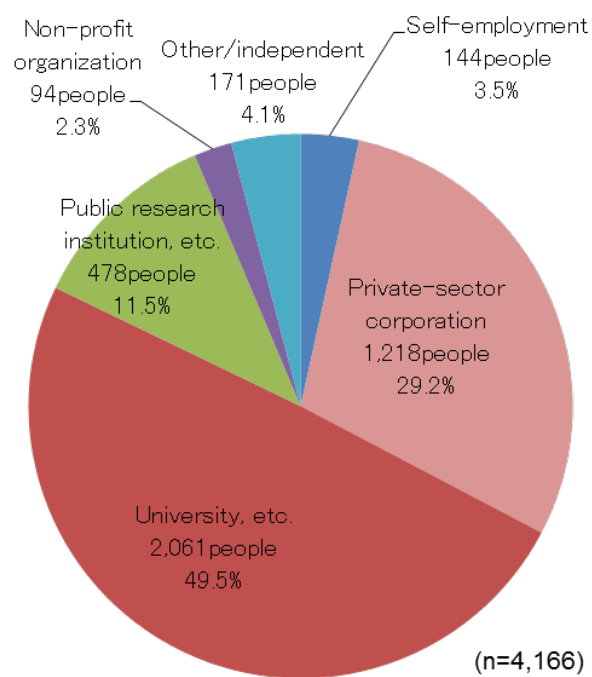
Figure 28 The labor income



② About an employment destination

1) Management organization of the employer

Figure 29 Management organization of the employer



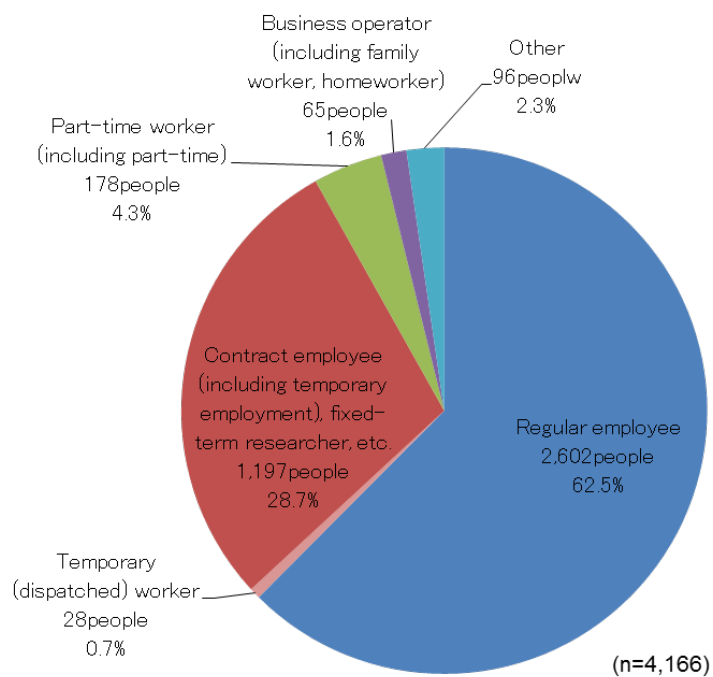
2) Scale of organization

Figure 30 Scale of organization

The number of investigations	4,166	100.0
Less than 10 people	200人	4.8%
10 people-29 people	177人	4.2%
30 people-99 people	285人	6.8%
100 people-499 people	894人	21.5%
500 people-999 people	514人	12.3%
More than 1000 people	1,949人	46.8%
No answer	147人	3.5%

3) Form of employment

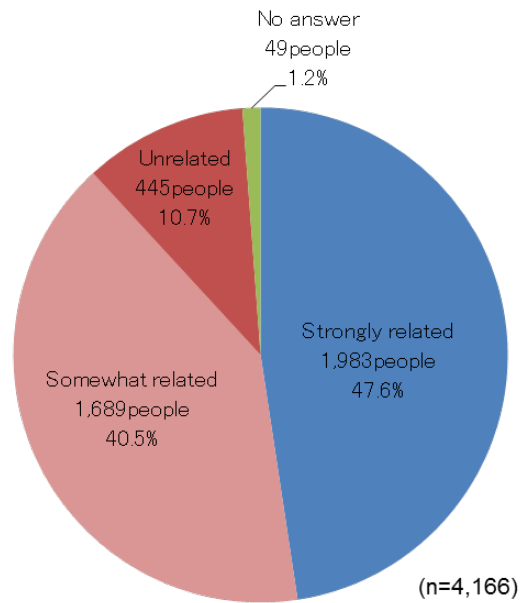
Figure 31 Form of employment



③ Consciousness about work

1) Relationship between degree and job

Figure 32 Relationship between degree and job



2) Job satisfaction

Figure 33 Job satisfaction (Job content)

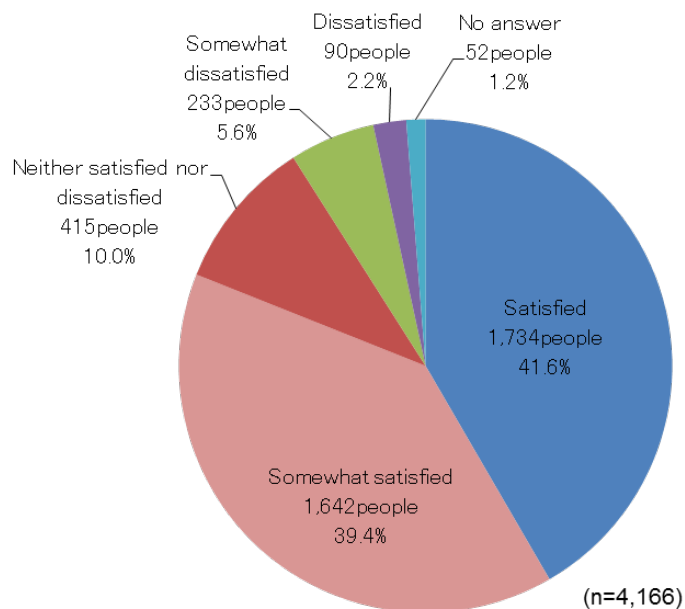
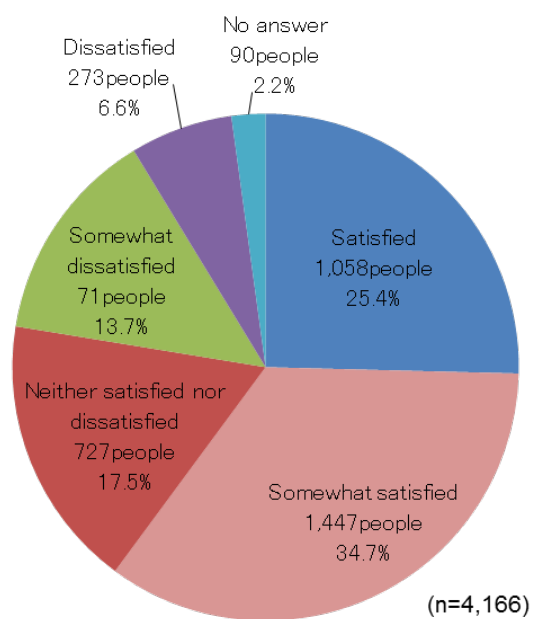


Figure 34 Job satisfaction (Compensation/treatment)

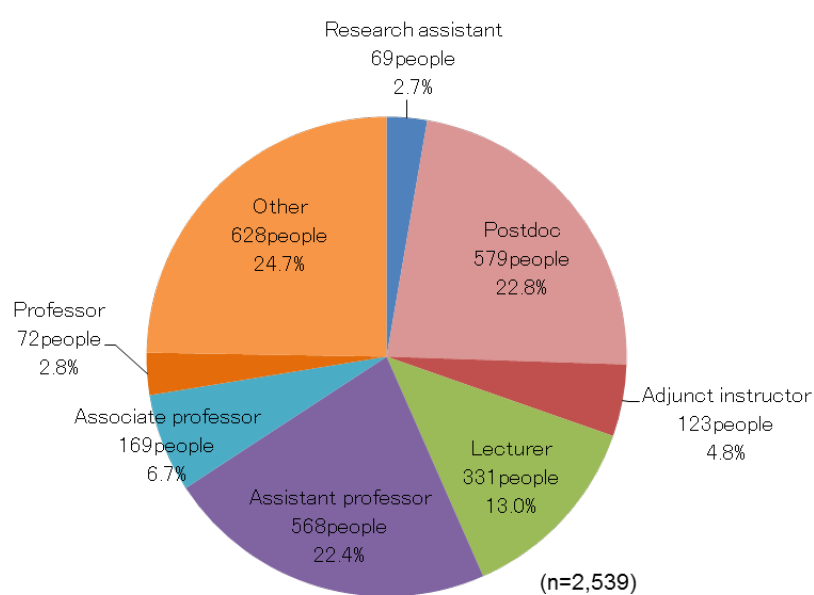


④ About work at type of academic institution

1) Job classification

※ A special-appointment assistant professor, special-appointment associate professor, etc. assumed "other".

Figure 35 Job classification



2) Tenure

Figure 36 Tenure

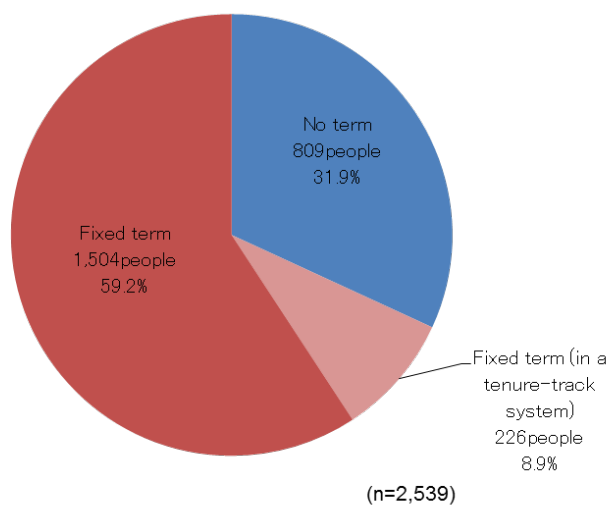


Figure 37

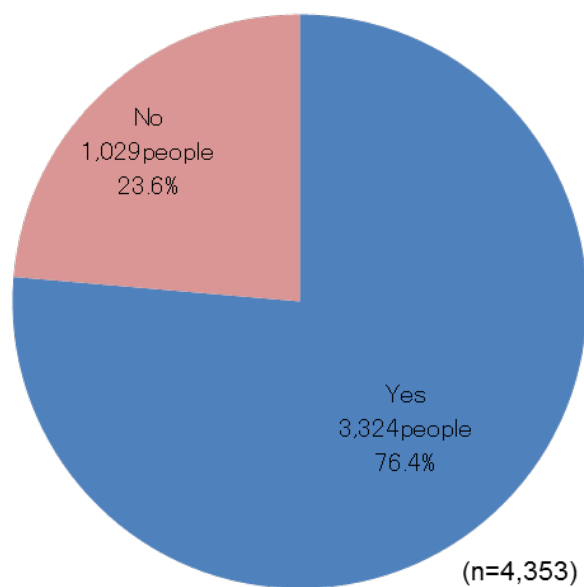
(n=4,353)

The longest tenure of office division	number of answer	rate
0 year	8	0.2%
1 year	353	8.1%
2 years	233	5.4%
3 years	448	10.3%
4 years	87	2.0%
5 years	425	9.8%
6 years-less than 10 years	51	1.2%
More than 10 years	48	1.1%
Unclear	1	0.0%
No answer	2,699	62.0%

(8) About the current status of your research

① Research activity

Figure 38 Research activity



② Grant-in-Aid for Scientific Research

Figure 39 Grant-in-Aid for Scientific Research(FY 2013)

The number of investigations	3,324	100%
Applied	461	13.9%
Did not apply	789	23.7%
Was qualified to apply but did not apply	946	28.5%
Wasn't qualified to apply	990	29.8%
No answer	138	4.2%

Figure 40 Grant-in-Aid for Scientific Research(FY 2014)

The number of investigations	3,324	100%
Have never applied	2,516	75.7%
Have applied but was not accepted	535	16.1%
Was accepted during FY 2013	159	4.8%
Was accepted during FY 2014	42	1.3%
No answer	72	2.2%

③ JSPS PD

Figure 41 JSPS PD

The number of investigations	3,324	100%
Have never applied	2,516	75.7%
Have applied but was not accepted	535	16.1%
Was accepted during FY 2013	159	4.8%
Was accepted during FY 2014	42	1.3%
No answer	72	2.2%

Figure 42 Type of Research Fellowship

The number of investigations	201	100%
PD	175	87.1%
SPD	6	3.0%
RPD	2	1.0%
Overseas research fellowship	15	7.5%
No answer	3	1.5%

Figure 43 Other fellowships

The number of investigations	3,324	100%
Yes	102	3.1%
No	3,132	94.2%
No answer	90	2.7%

④ Paper publications

Figure 44 Paper publications

(n=4,353)

Number of paper publications division	number of answer	rate
0	229	5.3%
1	507	11.6%
2	654	15.0%
3-5	1,234	28.3%
6-less than 10	416	9.6%
10-20	191	4.4%
More than 21	20	0.5%
No answer	1,102	25.3%

⑤ Patents

Figure 45 The patent application situation

(n=4,353)

Patent application number division	number of answer	rate
0	2,591	59.5%
1 case	232	5.3%
2 cases	87	2.0%
3-10cases	165	3.8%
More than 11 cases	100	2.3%
No answer	1,178	27.1%

⑥ Utility models

Figure 46 The utility model acquisition number

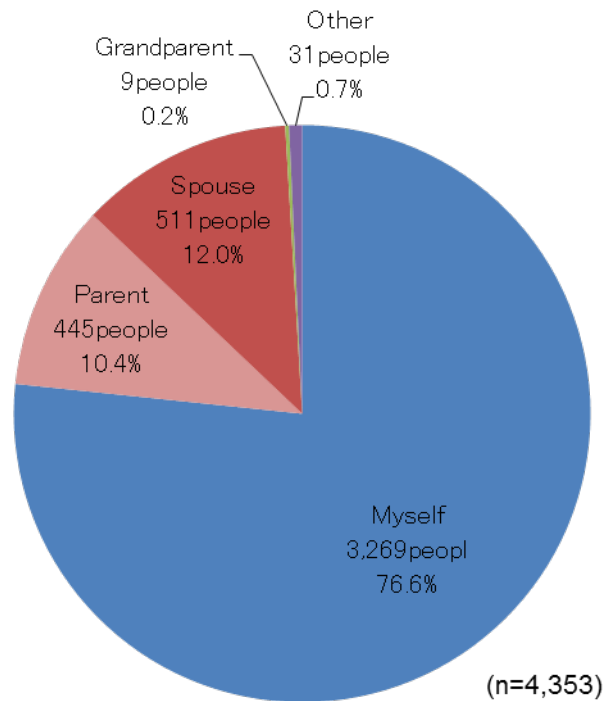
(n=4,353)

Utility model acquisition number division	number of answer	rate
0	3,057	70.2%
1 case	51	1.2%
2-10cases	40	0.9%
More than 11 cases	2	0.0%
No answer	1,203	27.6%

(9) The situation of the household

① Relationship to head of household

Figure 47 Head of household



② Household size

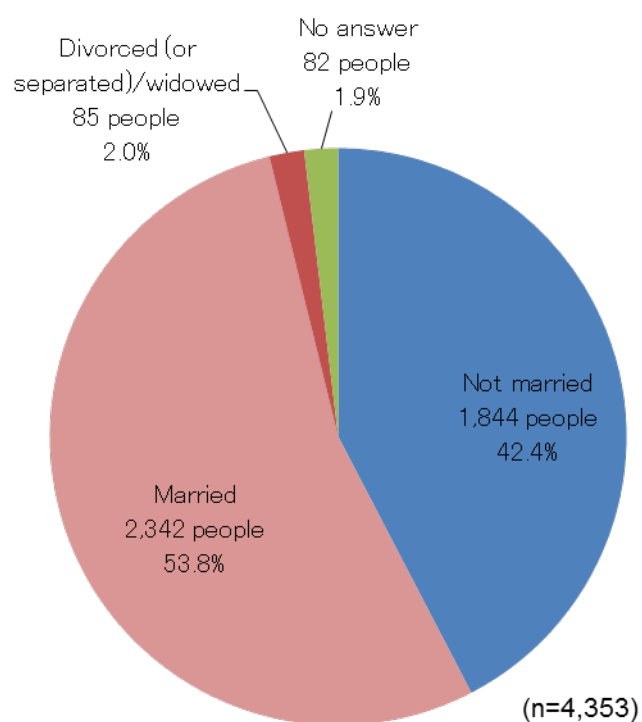
Figure 48 Household size

(n=4,353)

The inmate number division	number of answer	rate
1 people	1,550	35.6%
2 people	887	20.4%
3 people	842	19.3%
4 people	665	15.3%
More than 5 people	274	6.3%
No answer	135	3.1%

③ Marital status

Figure 49 Marital status



④ Number of children under 15 years old

Figure 50 Number of children under 15 years old

(n=4,353)

Number division of children under 15 years old	number of answer	rate
0	2,939	67.5%
1 people	673	15.5%
2 people	480	11.0%
3 people	119	2.7%
More than 4 people	20	0.5%
No answer	122	2.8%

he first Japan Doctoral Human Resource Profiling
Survey result (Preliminary Figures)

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