Academic Research Activities in Japan

National Center for Science Information Systems
Introduction

National Center for Science Information Systems (NACSIS) conducts an "Academic Research Activities Survey" in order to collect information for the "Directory of Researchers," a database on the research activities of scholars. This survey was conducted from 1961 onward by the Ministry of Education, Science, Sports, and Culture, and in 1992 this function was taken over by NACSIS.

The survey for fiscal 1998 covers 1,457 institutions engaged in academic research, and some 150,000 scholars affiliated with these institutions supplied most of the replies. Note that the scope of the survey respondents was widened in 1998 to include graduate students enrolled in university doctorate (post-MA) programs, special researchers affiliated with the Japan Society for the Promotion of Science, research associates affiliated with the Japan Society for the Promotion of Science, and part-time researchers at universities, etc., in addition to faculty and researchers employed at universities, etc., in positions equivalent to associate professor or above.

The results of the survey are already available as the "Directory of Researchers," which can be accessed online using the NACSIS Information Retrieval Service (NACSIS-IR). This service enables users to obtain detailed information on researchers and scholars from universities and other institutions throughout Japan.


It is our hope that this report will enable readers to gain an understanding of overall trends in academic research activities in Japan.
Contents

Introduction

1. Overview of Survey Results ............................................................... 1

2. Background of Academic Researchers .............................................. 2
   2.1 Number of Researchers by Field of Specialization ............................ 2
   2.2 Number of Researchers by Institution Type ...................................... 5
   2.3 Age ......................................................................................... 6
   2.4 Gender ................................................................................. 9
   2.5 Non-Japanese Names ................................................................. 11

3. Academic Background ................................................................. 13
   3.1 Last Degree Course Completed ..................................................... 13
   3.2 Researchers with Doctorate Degrees ........................................... 15

4. Current Research Topics ............................................................. 18

5. Overseas Research Activities ......................................................... 24
   5.1 Traveling Abroad to Perform Research Activities ......................... 24
   5.2 Participation in International Conferences and Scientific Societies
       Overseas .................................................................................. 27

6. Use of Languages Other Than Japanese by International Conferences
   and Scientific Societies ................................................................. 32
   6.1 Principal Languages Other Than Japanese Used to Present Research Findings
       to Research Societies ............................................................... 32
   6.2 Principal Languages Other Than Japanese Used to Write Papers .......... 32

7. Academic Society Affiliations of Researchers ..................................... 35
   7.1 Japanese Academic Societies .................................................... 35
   7.2 Overseas Academic Societies .................................................... 38

8. Academic Awards Received ........................................................... 41
   8.1 Japanese Awards Received ....................................................... 41
   8.2 Overseas Awards Received ....................................................... 43
Tables

Table 1 Number of Researchers by Field of Specialization / by Institution Type / by Professional Title (Japan) ........................................ 46
Table 2 Number of Researchers by Field of Specialization / by Institution Type / by Professional Title (National Institutions) .................. 88
Table 3 Number of Researchers by Field of Specialization / by Institution Type / by Professional Title (Municipal Institutions) ................. 124
Table 4 Number of Researchers by Field of Specialization / by Institution Type / by Professional Title (Private Institutions) ................. 148
Table 5 Number of Researchers by Field of Specialization / by Age / by Gender (Japan) ................................................................. 178
Table 6 Number of Researchers by Field of Specialization / by Age / by Gender (National Institutions) ............................................. 202
Table 7 Number of Researchers by Field of Specialization / by Age / by Gender (Municipal Institutions) ............................................. 226
Table 8 Number of Researchers by Field of Specialization / by Age / by Gender (Private Institutions) ................................................. 250
Table 9 Last Degree Course Completed by Field of Specialization ............ 274
Table 10 Doctorate Degrees by Field of Specialization .......................... 280
Table 11 Number of Doctorate Degrees by Field of Specialization / by Institution Type (Japan) ......................................................... 292
Table 12 Number of Doctorate Degrees by Field of Specialization / by Institution Type (National Institutions) ................................. 298
Table 13 Number of Doctorate Degrees by Field of Specialization / by Institution Type (Municipal Institutions) ............................... 304
Table 14 Number of Doctorate Degrees by Field of Specialization / by Institution Type (Private Institutions) ................................. 310
Table 15 Number of Research Topics by Field of Specialization / by Institution Type (Japan) ................................................................. 316
Table 16 Number of Research Topics by Field of Specialization / by Institution Type (National Institutions) ........................................ 322
Table 17 Number of Research Topics by Field of Specialization / by Institution Type (Municipal Institutions) ........................................ 328
Table 18 Number of Research Topics by Field of Specialization / by Institution Type (Private Institutions) ........................................... 334
Table 19 Number of Research Topics by Field of Specialization / by Status of Research Topic (Japan) ......................................................... 340
Table 20 Number of Research Topics by Field of Specialization / by Status of Research Topic (National Institutions) ........................... 346
Table 21 Number of Research Topics by Field of Specialization / by Status of Research Topic (Municipal Institutions) ............................. 352
Table 22  Number of Research Topics by Field of Specialization / by Status of Research Topic (Private Institutions) .......................... 358
Table 23  Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Japan) ........................................ 364
Table 24  Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (National Institutions) .................... 370
Table 25  Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Municipal Institutions) .............. 376
Table 26  Number of Researchers Who Have Traveled Abroad by Field of Specialization / by Institution Type (Private Institutions) ................. 382
Table 27  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Japan) ......................................................... 388
Table 28  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (National Institutions) ............................................. 394
Table 29  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Municipal Institutions) ................................................. 400
Table 30  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Institution Type (Private Institutions) ......................................................... 406
Table 31  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (Japan) .......................................................... 412
Table 32  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (National Institutions) .............................. 417
Table 33  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (Municipal Institutions) .............................. 422
Table 34  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (Private Institutions) .......................... 427
Table 35  Total Number of Times Participating in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (Japan) .......................................................... 432
Table 36  Total Number of Times Participating in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (National Institutions) ...................................... 437
Table 37  Total Number of Times Participating in International Conferences, Etc., Overseas by Field of Specialization /
Table 38  Total Number of Times Participating in International Conferences, Etc., Overseas by Field of Specialization / by Party Covering Expenses (Private Institutions)  447
Table 39  Languages Other Than Japanese Used to Present Research Findings, Etc., by Field of Specialization  452
Table 40  Languages Other Than Japanese Used to Write Papers by Field of Specialization  457
Table 41  Number of Academic Society Affiliations (Japanese) by Field of Specialization  462
Table 42  Number of Academic Society Affiliations (Overseas) by Field of Specialization  468
Table 43  Number of Persons Receiving Awards (Japanese) by Field of Specialization / by Institution Type  474
Table 44  Number of Persons Receiving Awards (Overseas) by Field of Specialization / by Institution Type  480
Table 45  Number of Researchers by Institution Type / by Professional Title / by Gender  486
Table 46  Last Degree Course Completed by Institution Type  488
Table 47  Number of Doctorate Degree Holders by Institution Type / by Professional Title  489
Table 48  Number of Researchers Who Have Traveled Abroad by Institution Type / by Professional Title  490
Table 49  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Institution Type / by Professional Title  491
Table 50  Number of Researchers Who Have Participated in International Conferences, Etc., Overseas by Institution Type / by Party Covering Expenses  492
Table 51  Number of Academic Society Affiliations (Japanese) by Institution Type  493
Table 52  Number of Academic Society Affiliations (Overseas) by Institution Type  494
Table 53  Number of Research Themes Related to Specific Areas by Institution Type  495
Table 54  Number of Research Themes Related to Specific Areas by Age of Researcher  496

Appendixes

Appendix 1  Instructions for Researchers (for Persons Filling Out the Survey Form for the First Time)  
Appendix 2  Individual Survey Form (Survey Form A)  

by Party Covering Expenses (Municipal Institutions)  442