

**Questionnaire for 2015 Ph.D. Graduates**

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**Questionnaire ID :**

**※ Please do not write on the Questionnaire ID section.**

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| This survey, conducted by the Ministry of Education(MOE) and Korea Research Institute for Vocational Education and Training(KRIVET) at the end of each semester, is designed to establish a statistical database on career paths of domestic doctoral graduates and build more effective policies for supporting high-quality human resources(doctoral graduates). As the official statistics(Approval No. 92009), all the information you provide will be kept strictly confidential under the Personal Information Protection Act(Article 58, Paragraph 1) and the Statistics Act(Article 5(Relationship with other Acts), Article 33(Protection of Secrets)), and will be used for statistical purposes only. |

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| **Basic Demographic Information** |
| Full Name |  | Sex | □ ① Male □ ② Female  |
| Year of Birth |

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|  |  |  |  | (YYYY) |

 | Nationality\* | □① Korea

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| □② Other | (Country Code: |  |  |  | ) |

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| **\* *If your nationality is not Korea, please write down your country code (refer to Appendix 2****).* |
| **Degree Information** |
| Type ofDegree | Date of Entrance/ Graduation(YYYY) | Name of University | Field Code\*(refer to the sample) | DepartmentCode\*\* | Type of University | Type of Graduate School | Location of Institution\*\*\* |
| (1)Bachelor | Entrance |

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| (2)Master | Entrance |

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| (3)Doctorate | Entrance |

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| ∙Please check in the box if you have graduated master & doctoral combined degree program |  |

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| *\*****<Field Code>*** *Please choose one of the seven categories which best describes your major field of degree.****Humanities=1, Social Sciences=2, Education=3, Engineering=4, Natural Sciences=5, Medical Sciences & Pharmacy=6, Art & Physical Education=7*** *\*\* Please write your department code referring to the Department Codes list (Appendix. 1) at the end of the questionnaire.**\*\*\* Please choose the City/ Province Code if you have graduated in Korea (see below), or fill in the Country Code* ***(see Appendix 2****), if not in Korea.****Seoul=1, Busan=2, Daegu=3, Incheon=4, Gwangju=5, Daejeon=6, Ulsan=7, Kyeonggi=8, Gangwon=9,******Chungbuk=10, Chungnam=11, Jeonbuk=12, Jeonnam=13, Gyeongbuk=14, Gyeongnam=15, Jeju=16, Sejong=17****※ If you have two or more doctoral degrees, please fill in your main degree.*  |

**※ Please submit the questionnaire to administration team of your graduate school along with your doctoral dissertation.**

**※ If you have any questions about the survey, please feel free to contact us as below.**

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Hye-Jeong KIM KRIVET 044-415-5161 hjkim0726@krivet.re.kr

**KRIVET MOE**

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| **Ⅰ. Doctoral Degree Program** |

 **1. Which type of student were you during your doctoral program (Full time or Part time)?**

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| --- | --- |
| (1) from Admission to Coursework Completion |  |
| □① Full-time student□② Part-time student (study and work at the same time) | *※* ***Full-time student*** *refers to one spending most of time studying during the doctoral program, despite spending time in RA/TA activities, project participations, part-time lecturer job or other part-time jobs.**※* ***Employment Status*** *includes the employer and self-employed without* *employees(Own-account worker) as well.* |

**2. Have you ever taken a leave of absence during your program?**

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| (1) Taking leave of absence | (2) Total semester(s) of absence  | (3) Main Reason for leave |
| □① Yes, I have. □② No, I have not. ☞ Go to item **3.** | ( )semester(s) | □① financial issues □② work burden □③ maternity and child care □④ health concerns □⑤ military services □⑥ others( ) |

**3. How much is total tuition fee for doctoral course and how was it paid?**

 **3-1. How much is total tuition fee for doctoral course? (Including the tuition-exemption scholarship)**

□① less than 1,000 ten thousand KRW □② 1,000~2,000 ten thousand KRW □③ 2,000~3,000 ten thousand KRW

□④ 3,000~4,000 ten thousand KRW □⑤ 4,000~5,000 ten thousand KRW □⑥ 5,000~6,000 ten thousand KRW

□⑦ 6,000~7,000 ten thousand KRW □⑧ 7,000~8,000 ten thousand KRW □⑨ more than 8,000 ten thousand KRW

 **3-2. How was it paid?**

|  |  |
| --- | --- |
| (1) Self-Paying or Family Support (Support from parents, siblings and spouse) | ( )% |
| (2)Scholarship | (2-1) Fellowship/ Scholarship | ( )% |
| (2-2) Grant | ( )% |
| (2-3) Research Assistantship(R.A.) | ( )% |
| (2-4) Teaching Assistantship(T.A.) | ( )% |
| (2-5) Other Assistantships | ( )% |
| (2-6) non-Korean Scholarship | ( )% |
| (3) Student Loan | ( )% |
| (4) Financial assistance from employers | ( )% |
| (5) Other ( ) | ( )% |

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| *※‘Total Tuition Fee’refers to total amount that you paid to school, including registration fee, tuition fee during/after coursework, fee for academic advisory, etc.**※ Please make sure that the sum of the percentages for item (1)~(6)(calculated on the basis of the total tuition fee) is* ***100****. (Put “0” for items which are not relevant for you).* |

 **4. How many journal articles have you published during the doctoral course? (\*including articles accepted for publication)**

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| --- | --- | --- | --- |
| **Author Status** | **Number of Articles** | **Domestic** | **Overseas** |
| **Registered** | **Candidate** | **Non-Registered** | **SCI(E)/SSCI/A&HCI** | **Others** |
| 1st author  |  |  |  |  |  |  |
| Co-author |  |  |  |  |  |  |

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| *※ Please put “0” if you do not have any published articles.*  |

**5. Have you participated in any research projects during your doctoral courses?**

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| (1) Participation | (2) Total Number of Projects Participated  | (3)Funding Source of the project | (4) TotalParticipation Period |
| □① Yes □② No **☞ Go to item 6.** | **Total ( )** | Central/ Local Government ( )Corporation ( )University(School-Industry Cooperation Program) ( ) Foundation/Academy ( )Others ( ) |  Month(s) |

**6. What was your main purpose of studying doctoral program? (Please choose one answer.)**

□① To be a professor/professional researcher □② To get a good job/move to a better job

□③ To promote in workplace □④ To get the honor of doctoral degree

□⑤ To continue studying □⑥ Others( )

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| *※ Please answer item* ***6-1****,**if you earned* ***a******B.A. or an M.A****,* ***overseas****.* *Please go to item* ***7****, if you earned* ***a******B.A. and an M.A****. in* ***Korea****.* |

**6-1. (In case of earning a B.A. or an M.A. overseas) Why do you want to acquire a Ph.D. in Korea?**

**☞ After answering, go to item 7.**

□① Lots of financial aid(scholarship, RA etc.) □② Good research environment(research facilities, etc.)

□③ Good quality education(professors and curriculum etc.) □④ To study and get a degree in Korea

□⑤ To get a job in Korea □⑥ Others( )

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| **Ⅱ. Plan after Graduation and State of Employment**  |

**7. Are you planning to work (or change job) and move abroad after getting doctoral degree (within 1 year)?**

 □① Stay in Korea **☞ go to item 8.** □② Abroad (Country Code: )**☞ go to item 7-1.**

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| *※ Fill in the Country Code* ***(see Appendix 2****), if you are not staying in Korea.* |

**7-1. Why are you planning to move abroad?**

□① To do a Post-doc abroad □② To get a job/ return to a former job

 □③ To stay abroad □④ Other ( )

**8. Are you employed or admitted for employment?**

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| --- | --- |
| □① Employed(except post-doc/ lecturer) **☞ Go to item 9.** □② Admitted for employment(except post-doc/ lecturer) **☞ Go to item 9.** □③ Admitted for a post-doc **☞ Go to item 9.**□④ Admitted for a lecturer **☞ Go to item 9.**□⑤ Unemployed, on job searching **☞ Go to item 16.**□⑥ Unemployed, no plan for job searching **☞ Go to item 8-1.** | **8-1. Why are you not planning to search for a job?****☞ Survey termination. Thank you.**□① Child care or Housework □② Planning to start own business □③ Planning to take exams and other preparations for employment□④ Health issues □⑤ Preparing to study abroad□⑥ Preparing for further study□⑦ Other  |

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| **Ⅲ. (Admitted) Employees** |

**9. What is your employment status?**

 □① Permanent Employee**☞ Go to item 9-1.** □② Temporary Employee**☞ Go to item 9-1.**

 □③ Daily Worker**☞ Go to item 9-1.** □④ Self-employed person with employees(Employer)**☞ Go to item 10.**

□⑤ Self-employed person without employees(Own-account worker) **☞ Go to item 10.**

□⑥ Unpaid Family Worker **☞ Go to item 10.**

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| ※ ***Permanent Employees***: Paid workers who have employment contracts with a duration of longer than one year, Person who is a permanent employee in less than one year service period※ ***Temporary Employees***: Paid workers who have employment contracts with a duration of longer than one month but less than one year※ ***Daily Workers***: Paid workers who have employment contracts with a duration of no more than one month※ ***Self-employed persons with employees(Employer)***: Those who hire one or more workers for them in their business on a continuous basis※ ***Self-employed persons without employees(Own-account worker)***: Those who work alone in their business or with one or more partners(including unpaid family worker) ※ ***Unpaid Family Workers***: Those who work without pay in an economic enterprise operated by family or relatives(no need to be in the same household) and work for more than 1/3 of regular working time of the enterprise |

**9-1. What is your employment type?**

□① regular □② irregular(full-time) □③ irregular(part-time)

 **10. What type of workplace do you work in?**

□① University □② Elementary/Lower Secondary/Upper Secondary school □③ Central or Local Governments

□④ Public Research Institute □⑤ Private Research Institute □⑥ Public Company

□⑦ Private Company □⑧ Started a Business/Self-employed □⑨ Other Education Institute

□⑩ Hospital/ Medical Institution □⑪ Foundation/ Corporation/ Association etc. □⑫ Others( )

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| *※ Please check on ‘university’ if you are affiliated to c*entral or local *government and work in university* *※ Research Institutes refers only to those registered as corporate.* |

**11. Please tell us brief information of your workplace.**

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| --- | --- | --- | --- |
| (1) Overseas Employment or not | (2) Location\* | (3) Industry type\*\* | (4) Number of Employees |
| □① Korea |

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| (City/Province: |  |  | ) |

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| (Industry Code: |  |  |  | ) |

 | □① 1 ~ 29 persons □② 30 ~ 99 persons□③ 100 ~ 299 persons □④ 300 ~ 999 persons □⑤ more than 1,000 persons |
| □② Overseas |

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| (Country Code: |  |  |  | ) |

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| *\* Please choose the City/ Province Code if your workplace is in Korea (see below), or fill in the Country Code* ***(see Appendix 2****), if not in Korea.****Seoul=1, Busan=2, Daegu=3, Incheon=4, Gwangju=5, Daejeon=6, Ulsan=7, Kyeonggi=8, Gangwon=9,******Chungbuk=10, Chungnam=11, Jeonbuk=12, Jeonnam=13, Gyeongbuk=14, Gyeongnam=15, Jeju=16, Sejong=17****\*\* Fill in the Industry Code (****see Appendix 3*** *).*  |

**12. What is your occupational type in the company/organization?**

□① Manager □② Science and Engineering professional □③ Health Expert

□④ Education Expert □⑤ Business and Administration Professional □⑥ IT Expert

□⑦ Legal, Social, Cultural professional □⑧ Clerical worker □⑨ Services, Sales Workers

□⑩ Craft Worker, Assembler □⑪ Other( )

 **13. When did you (or are you scheduled to) start working at your current workplace?**

 (YYYY)

 **14. Please check your pre-tax annual salary(If you are admitted for employment, check your expected salary).**

 □① less than 2,000 ten thousand KRW/year □② 2,000~3,000 ten thousand KRW/year □③ 3,000~4,000 ten thousand KRW/year

□④ 4,000~5,000 ten thousand KRW/year □⑤ 5,000~6,000 ten thousand KRW/year □⑥ 6,000~7,000 ten thousand KRW/year

□⑦ 7,000~8,000 ten thousand KRW/year □⑧ 8,000~10,000 ten thousand KRW/year □⑨ more than 10,000 ten thousand KRW/year

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| *※ Pre-tax annual salary is the total sum including a basic salary, various allowances and bonuses.* |

 **15. How much is your current job(or job which you are to undertake) related to your doctoral major?**

□① little related □② a little related □③ quite related □④ very related

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| **Ⅳ. Job Seekers and Career Changers** |

***※ Please only answer if you are a ‘job seeker’ or want to be a ‘career changer’.***

 **16. What type of workplace do you most prefer?(Please write down 1st, 2nd rank)**

**---1st Preference: ( ), 2nd Preference ( )**

□① University □② Elementary/Lower Secondary/Upper Secondary school □③ Central or Local Governments

□④ Public Research Institute □⑤ Private Research Institute □⑥ Public Company

□⑦ Private Company □⑧ Started a Business/Self-employed □⑨ Other Education Institute

□⑩ Hospital/ Medical Institution □⑪ Foundation/ Corporation/ Association etc. □⑫ Others( )

 **17. What aspect of job is most important to you when you choose a job?**

□① Level of income □② Job security □③ Level of matching job with major □④ Good prospects

□⑤ Social honor □⑥ Location of workplace □⑦ Organizational culture of workplace □⑧ Other ( )

 **18. How much annual salary do you expect?** **☞ After this question, please go to item 19.**

□① less than 2,000 ten thousand KRW/year □② 2,000~3,000 ten thousand KRW/year □③ 3,000~4,000 ten thousand KRW/year

□④ 4,000~5,000 ten thousand KRW/year □⑤ 5,000~6,000 ten thousand KRW/year □⑥ 6,000~7,000 ten thousand KRW/year

□⑦ 7,000~8,000 ten thousand KRW/year □⑧ 8,000~10,000 ten thousand KRW/year □⑨ more than 10,000 ten thousand KRW/year

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| **Ⅴ. Post-doctoral Program** |

***※*** *Please only answer* ***if you are planning to apply for Post-doctoral Program or in work.***

 **19. Are you planning to apply for Post-doctoral Programs?**

□① Admitted as a post-doctoral researcher □② Plan(Prepare) to apply

 **20. Where is the location of the program?**

□① Korea **☞ go to item 21.** □② Abroad (Country Code: )**☞ go to item 20-1.**

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| *※ Fill in the Country Code* ***(see Appendix 2****), if you are going abroad.* |

 **20-1. Are you planning to come back to Korea?**

□① Plan to come back after finishing the post-doctoral program

□② Plan to come back after finishing the post-doctoral program and gaining work experience

□③ Plan to come right back in case of getting a job in Korea(even though you have not finished the post-doctoral program)

□④ Plan to keep staying abroad

 **21. Where is source of funding for the program?**

□① University □② Government □③ Public Research Institute

□④ Private Research Institute □⑤ Private Company □⑥ Others ( )

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| **Ⅵ. Lecturer** |

***※*** *Please only answer* ***if you are planning to lecture.***

 **22. Are you planning to lecture as a main job, or side job in next semester?**

□① full-time lecturer(lecturer as a main job) □② adjunct lecturer(lecturer as a side job)

 **23. Please answer your estimates for next semester on each question in the box.**

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| --- | --- | --- |
| (1) Total Number of Lectures that you will hold | (2) Total Credit of Lectures | (3) Total Income from Tuition Fees |
| ( ) Lectures | ( ) Credits | □① month ( )ten thousand KRW□② semester ( )ten thousand KRW |

**Thank you very much.**

**CONSENT FORM TO PARTICIPATE IN 「DPAG」**(DOCTORATE HOLDERS POLICY ADVISORY GROUP)

**FOR HIGH-LEVEL HUMAN RESOURCES**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| The Ministry of Education(MOE) and Korea Research Institute for Vocational Education and Training(KRIVET) are looking for advisors in order to seek policy advice for nurturing and using high-level human resources(doctorate holders).**1. PURPOSE** Providing policies and advices for nurturing and using high-level human resources(doctorate holders)**2. ACTIVITIES**① studying policies for nurturing and using high-level human resources, participating in survey projects, advising② Participation in surveys for doctorate panel**※ The advisory group’s activity duration is to be renewed every year.** **The participant in ‘Surveys for Doctorate Panel’ is certified as a panel regardless of duration.** **3. BENEFITS**① Small gifts to participants who complete the survey② Offering publications using research data on doctorate holders③ Reflection of advisory group’s opinion when collecting data for policy-making④ Priority given to participants as experts in conducting policy affairs **<PARTICIPANT INFORMATION>**

|  |  |  |  |
| --- | --- | --- | --- |
| **Full Name** | **(Mobile) Phone Number** | **E-mail** | **Mailing Address**(To Receive Postal Matter) |
|  |  |  |  |

※ This personal information is completely protected and only used for research purposes**(under the Statistics Law, article 33, Maintain the Anonymity and Secrecy Protection).****I hereby agree to participate in 「DPAG」(DOCTORATE HOLDERS POLICY ADVISORY GROUP)** **FOR HIGH-LEVEL HUMAN RESOURCES.** **Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **EMB00000c9c3065****20 . . .** |

Appendix 1. Department Codes List

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| **Humanities (1)** |  | **Natural Sciences (5)** |
| 650  | 인류학 일반 및 기타 | Anthropology, General |  | 농업과학/ 자원 AGRICULTURAL SCIENCES/NATURAL RESOURCES |
| 676  | 언어학 | Linguistics |  | 020 | 작물학 및 원예학 | Crop Sciences & Horticulture Sciences |
| 700  | 역사 일반 및 기타 | History |  | 043 | 식품과학 | Food Sciences |
| 720  | 문학  | LETTERS |  | 046 | 토양학/미생물학 | Soil Chemistry/Microbiology |
| 740  | 어문 일반 및 기타  | FOREIGN LANGUAGES & LITERATURE |  | 055 | 수산학/ 관리 | Fishing & Fisheries Sciences/Management |
| 785  | 철학 | Philosophy |  | 060 | 산림학 및 자원관리 | Forest Science & Resources Management |
| 790  | 종교학 | Religion/Religious Studies |  | 081 | 환경과학 | Environmental Sciences |
| 792  | 성서학 및 신학 | Bible/Biblical Studies & Theology |  | 099 | 농업과학/자원 기타 | Agricultural Sciences/Natural Resources, Other |
| 798  | 인문학 일반 및 기타 | Humanities, General |  | 생물학 / 생명의학 BIOLOGICAL/BIOMEDICAL SCIENCES |
| 972  | 도서관학 | Library Science |  | 100 | 생화학 | Biochemistry  |
|  |  | 103 | 생물의학 | Biomedical Sciences |
| **Social Sciences (2)** |  | 107 | 생물공학(바이오테크놀러지) | Biotechnology |
| 600 | 심리학 | Psychology |  | 110 | 세균학 | Bacteriology |
| 651 | 성 및 여성학 | Gender and Women’s Studies |  | 129 | 식물학 | Botany/Plant Biology |
| 658 | 범죄학 | Criminology |  | 134 | 역학 | Epidemiology |
| 665 | 자원/환경 경제학 | Natural Resource/Environmental Economics  |  | 136 | 세포 생물학 및 조직학 | Cell/Cellular Biology & Histology |
| 667 | 경제학 | Economics |  | 139 | 생태학 | Ecology |
| 670 | 지리학 | Geography |  | 142 | 발달생물학/발생학 | Developmental Biology/Embryology |
| 674 | 국제관계학/정책 | International Relations/Affairs |  | 145 | 내분비학 | Endocrinology |
| 678 | 정치학 및 정부학 | Political Sciences & Government |  | 151 | 면역학 | Immunology |
| 682 | 정책학 | Public Policy Analysis |  | 154 | 분자생물학 | Molecular Biology |
| 686 | 사회학 | Sociology |  | 155 | 구조생물학 | Structural Biology |
| 690 | 통계학 | Statistics  |  | 157 | 미생물학 | Microbiology |
| 695 | 도시, 지역사회 및 지역계획 | Urban/City, Community & Regional Planning |  | 158 | 암생물학 | Cancer Biology |
| 698 | 사회과학 일반 | Social Sciences, General |  | 160 | 신경학 및 신경생물학 | Neurosciences & Neurobiology |
| 900 | 회계 | Accounting |  | 163 | 영양학 | Nutrition Sciences |
| 901 | 금융 | Finance |  | 166 | 기생충학 | Parasitology |
| 902 | 세무 | Taxation |  | 168 | 바이러스학 | Virology |
| 910 | 경영 일반 및 관리 | Business Administration & Management |  | 169 | 독성학 | Toxicology |
| 912 | 관광학 | Hospitality, Food Service & Tourism Management |  | 189 | 동물학 | Zoology |
| 916 | 무역·유통·물류 | Trade/Commerce/Logistics |  | 199 | 생물학/생명의학 기타 | Biology/Biomedical Sciences, Other |
| 920 | 광고·홍보학 및 마케팅 | Advertising&PR, Marketing |  | 수학 MATHEMATICS |
| 940 | 언론·방송·매체학 | Media & Journalism/Communication |  | 420 | 응용수학 | Applied Mathematics |
| 968 | 법 | Law |  | 450 | 통계학 | Statistics |
| 976 | 행정학 | Public Administration |  | 498 | 수학 일반 | Mathematics, General |
| 980 | 사회복지학 | Social Work |  | 물리학 PHYSICAL SCIENCES |
| 　 |  | 500 | 천문학 | Astronomy |
| **Education (3)** |  | 510 | 대기학 및 기상학 | Atmospheric Sciences & Meteorology |
| 800 | 교육 일반 | Education, General |  | 538 | 화학 일반 | Chemistry, General |
| 835 | 특수 교육 | Special Education |  | 540 | 지질학 및 지구과학 | Geology & Earth Sciences |
| 850 | 유치원/유아원 교육 | Pre-elementary/Early Childhood Education |  | 578 | 물리학 일반 | Physics, General |
| 852 | 초등 교육 | Elementary Education |  | 585 | 해양학 및 해양과학 | Ocean Sciences |
| 856 | 중등 교육 | Secondary Education |  | 생활과학 LIFE SCIENCES |
| 899 | 교육 기타 | Education, Other |  | 090 | 가정 관리학 | Home Economics |
| 　 |  | 091 | 식품영양학 | Food & Nutrition |
| **Engineering (4)** |  | 092 | 의류·의상학 | Costume & Apparel Study |
| 300 | 항공우주, 항공 및 우주공학 | Aerospace, Aeronautical & Astronautical Engineering |  |  |
| 303 | 농공학 | Agricultural Engineering |  |  |  |  |
| 306 | 생물공학/의공학 | Bioengineering & Biomedical Engineering |  | **Medical Sciences & Pharmacy (6)** |
| 312 | 화학공학 | Chemical Engineering |  | 200 | 언어병리학 및 청각학 | Speech-Language Pathology & Audiology |
| 315 | 토목공학 | Civil Engineering |  | 201 | 임상의과학 및 기술/방법론 | Clinical Sciences & Technology/Methodology |
| 316 | 건축공학 | Structural Engineering |  | 203 | 해부학 | Anatomy |
| 318 | 통신공학 | Communications Engineering |  | 204 | 노화 및 종양학 | Aging and Cancer |
| 324 | 전기, 전자 및 통신공학 | Electrical, Electronics & Communications Engineering |  | 205 | 유전학 | Genetics |
| 327 | 공학역학 | Engineering Mechanics |  | 206 | 면역학 | Allergy & Immunology |
| 330 | 공학물리 | Engineering Physics |  | 207 | 치의학 | Oral Biology/Oral Pathology |
| 333 | 공학과학 | Engineering Sciences |  | 208 | 한의학 | Oriental Medical Sciences |
| 336 | 환경 보건 공학 | Environmental/Environmental Health Engineering |  | 210 | 환경 보건 | Environmental Health |
| 337 | 지질 및 지반환경 공학 | Geotechnical & Geoenvironmental Engineering |  | 212 | 의료시스템관리 | Health Systems/Service Administration |
| 339 | 산업 및 생산 공학 | Industrial & Manufacturing Engineering |  | 215 | 공중보건 | Public Health |
| 342 | 재료 공학 | Materials Science Engineering |  | 217 | 의료정책분석 | Health Policy Analysis |
| 345 | 기계 공학 | Mechanical Engineering |  | 222 | 생리학/운동생리학 | Physiology/Exercise Physiology |
| 348 | 금속 공학 | Metallurgical Engineering |  | 223 | 병리학 | Pathology |
| 357 | 원자력 공학 | Nuclear Engineering |  | 225 | 신경과학 | Neurosciences |
| 360 | 해양 공학 | Ocean Engineering |  | 227 | 노인학 | Gerontology |
| 363 | OR | Operations Research |  | 230 | 간호학 | Nursing Sciences |
| 366 | 석유 공학 | Petroleum Engineering |  | 240 | 제약학/약리학 | Pharmaceutical Sciences/Pharmacology |
| 369 | 고분자 공학 | Polymer & Plastics Engineering |  | 245 | 재활치료 | Rehabilitation/Therapeutic  |
| 372 | 시스템 공학 | Systems Engineering |  | 250 | 수의학 | Veterinary Sciences |
| 373 | 교통 및 도로 공학 | Transportation & Highway Engineering |  | 280 | 정신건강의학 | Neuropsychiatry |
| 376 | 공학 경영 및 관리 | Engineering Management & Administration |  | 290 | 의학공학 | Medical Engineering |
| 399 | 공학 기타 | Engineering, Other |  | 298 | 보건 기타 | Health, Other |
| 400 | 컴퓨터공학 | Computer Sciences |  | 299 | 의학 기타 | Medical Sciences, Other |
| 415 | 로봇공학 | Robotics |  |  |  |  |
|  |  |  |  |  |
| **Art & Physical Education (7)** |  |  |  |  |
| 770 | 디자인 일반 | Design, General |  |  |  |  |
| 771 | 응용예술, 공예·사진·영상 | Applied Arts |  |  |  |  |
| 772 | 무용 | Dancing |  |  |  |  |
| 773 | 체육 | Physical |  |  |  |  |
| 774 | 미술·조형일반 | Fine Arts/Formative Arts |  |  |  |  |
| 775 | 연극 및 영화 | Drama & Cinema |  |  |  |  |
| 776 | 음악 | Music |  |  |  |  |

Appendix 2. Country Code

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 288 | 가나 (GHA) |  | 584 | 마셜 제도 (MHL) |  | 682 | 사우디아라비아 (SAU) |  | 92 | 영국령 버진아일랜드 (VGB) |  | 178 | 콩고 공화국 (COG) |
| 266 | 가봉 (GAB) |  | 175 | 마요트 (MYT) |  | 239 | 사우스조지아 사우스샌드위치 제도 (SGS) |  | 86 | 영국령 인도양 지역 (IOT) |  | 180 | 콩고 민주 공화국 (COD) |
| 328 | 가이아나 (GUY) |  | 446 | 마카오 (MAC) |  | 674 | 산마리노 (SMR) |  | 887 | 예멘 (YEM) |  | 192 | 쿠바 (CUB) |
| 270 | 감비아 (GMB) |  | 807 | 마케도니아 공화국 (MKD) |  | 678 | 상투메 프린시페 (STP) |  | 512 | 오만 (OMN) |  | 414 | 쿠웨이트 (KWT) |
| 831 | 건지 섬 (GGY) |  | 454 | 말라위 (MWI) |  | 666 | 생피에르 미클롱 (SPM) |  | 36 | 오스트레일리아 (AUS) |  | 184 | 쿡 제도 (COK) |
| 312 | 과들루프 (GLP) |  | 458 | 말레이시아 (MYS) |  | 732 | 서사하라 (ESH) |  | 40 | 오스트리아 (AUT) |  | 191 | 크로아티아 (HRV) |
| 320 | 과테말라 (GTM) |  | 466 | 말리 (MLI) |  | 686 | 세네갈 (SEN) |  | 340 | 온두라스 (HND) |  | 162 | 크리스마스 섬 (CXR) |
| 316 | 괌 (GUM) |  | 833 | 맨 섬 (IMN) |  | 688 | 세르비아 (SRB) |  | 248 | 올란드 제도 (ALA) |  | 417 | 키르기스스탄 (KGZ) |
| 308 | 그레나다 (GRD) |  | **484** | **멕시코 (MEX)** |  | 690 | 세이셸 (SYC) |  | 400 | 요르단 (JOR) |  | 296 | 키리바시 (KIR) |
| 300 | 그리스 (GRC) |  | 492 | 모나코 (MCO) |  | 662 | 세인트루시아 (LCA) |  | 800 | 우간다 (UGA) |  | 196 | 키프로스 (CYP) |
| 304 | 그린란드 (GRL) |  | 504 | 모로코 (MAR) |  | 670 | 세인트빈센트 그레나딘 (VCT) |  | 858 | 우루과이 (URY) |  | **764** | **타이 (THA)** |
| 324 | 기니 (GIN) |  | 480 | 모리셔스 (MUS) |  | 659 | 세인트키츠 네비스 (KNA) |  | 860 | 우즈베키스탄 (UZB) |  | 762 | 타지키스탄 (TJK) |
| 624 | 기니비사우 (GNB) |  | 478 | 모리타니 (MRT) |  | 654 | 세인트헬레나 (SHN) |  | 804 | 우크라이나 (UKR) |  | 834 | 탄자니아 (TZA) |
| 516 | 나미비아 (NAM) |  | 508 | 모잠비크 (MOZ) |  | 706 | 소말리아 (SOM) |  | 876 | 왈리스 퓌튀나 (WLF) |  | 796 | 터크스 케이커스 제도 (TCA) |
| 520 | 나우루 (NRU) |  | 499 | 몬테네그로 (MNE) |  | 90 | 솔로몬 제도 (SLB) |  | 368 | 이라크 (IRQ) |  | 792 | 터키 (TUR) |
| 566 | 나이지리아 (NGA) |  | 500 | 몬트세랫 (MSR) |  | 736 | 수단 (SDN) |  | 364 | 이란 (IRN) |  | 768 | 토고 (TGO) |
| 10 | 남극 (ATA) |  | 498 | 몰도바 (MDA) |  | 740 | 수리남 (SUR) |  | 376 | 이스라엘 (ISR) |  | 772 | 토켈라우 (TKL) |
| 728 | 남수단 (SSD) |  | 462 | 몰디브 (MDV) |  | 144 | 스리랑카 (LKA) |  | 818 | 이집트 (EGY) |  | 776 | 통가 (TON) |
| 710 | 남아프리카 공화국 (ZAF) |  | 470 | 몰타 (MLT) |  | 744 | 스발바르 얀마옌 제도 (SJM) |  | 380 | 이탈리아 (ITA) |  | 795 | 투르크메니스탄 (TKM) |
| **528** | **네덜란드 (NLD)** |  | 496 | 몽골 (MNG) |  | 748 | 스와질란드 (SWZ) |  | 360 | 인도네시아 (IDN) |  | 798 | 투발루 (TUV) |
| 530 | 네덜란드령 안틸레스 (ANT) |  | **840** | **미국 (USA)** |  | **752** | **스웨덴 (SWE)** |  | **356** | **인도 (IND)** |  | 788 | 튀니지 (TUN) |
| 524 | 네팔 (NPL) |  | 581 | 미국령 군소 제도 (UMI) |  | 756 | 스위스 (CHE) |  | **392** | **일본 (JPN)** |  | 780 | 트리니다드 토바고 (TTO) |
| 578 | 노르웨이 (NOR) |  | 850 | 미국령 버진아일랜드 (VIR) |  | **724** | **스페인 (ESP)** |  | 388 | 자메이카 (JAM) |  | 591 | 파나마 (PAN) |
| 574 | 노퍽 섬 (NFK) |  | 104 | 미얀마 (MMR) |  | 703 | 슬로바키아 (SVK) |  | 894 | 잠비아 (ZMB) |  | 600 | 파라과이 (PRY) |
| 540 | 누벨칼레도니 (NCL) |  | 583 | 미크로네시아 연방 (FSM) |  | 705 | 슬로베니아 (SVN) |  | 832 | 저지 섬 (JEY) |  | 586 | 파키스탄 (PAK) |
| 554 | 뉴질랜드 (NZL) |  | 548 | 바누아투 (VUT) |  | 760 | 시리아 (SYR) |  | 226 | 적도 기니 (GNQ) |  | 598 | 파푸아 뉴기니 (PNG) |
| 570 | 니우에 (NIU) |  | 48 | 바레인 (BHR) |  | 694 | 시에라리온 (SLE) |  | 408 | 북한 (PRK) |  | 585 | 팔라우 (PLW) |
| 562 | 니제르 (NER) |  | 52 | 바베이도스 (BRB) |  | 702 | 싱가포르 (SGP) |  | 268 | 조지아 (GEO) |  | 275 | 팔레스타인 (PSE) |
| 558 | 니카라과 (NIC) |  | 336 | 바티칸 시국 (VAT) |  | 784 | 아랍에미리트 (ARE) |  | 140 | 중앙아프리카 공화국 (CAF) |  | 234 | 페로 제도 (FRO) |
| **410** | **대한민국 (KOR)** |  | 44 | 바하마 (BHS) |  | 533 | 아루바 (ABW) |  | 158 | 중화민국 /대만 (TWN) |  | 604 | 페루 (PER) |
| 208 | 덴마크 (DNK) |  | 50 | 방글라데시 (BGD) |  | 51 | 아르메니아 (ARM) |  | **156** | **중국 (CHN)** |  | 620 | 포르투갈 (PRT) |
| 212 | 도미니카 연방 (DMA) |  | 60 | 버뮤다 (BMU) |  | 32 | 아르헨티나 (ARG) |  | 262 | 지부티 (DJI) |  | 238 | 포클랜드 제도 (FLK) |
| 214 | 도미니카 공화국 (DOM) |  | 204 | 베냉 (BEN) |  | 16 | 아메리칸사모아 (ASM) |  | 292 | 지브롤터 (GIB) |  | 616 | 폴란드 (POL) |
| 276 | 독일 (DEU) |  | 862 | 베네수엘라 (VEN) |  | 352 | 아이슬란드 (ISL) |  | 716 | 짐바브웨 (ZWE) |  | 630 | 푸에르토리코 (PRI) |
| 626 | 동티모르 (TLS) |  | **704** | **베트남 (VNM)** |  | 332 | 아이티 (HTI) |  | 148 | 차드 (TCD) |  | **250** | 프랑스 (FRA) |
| 418 | 라오스 (LAO) |  | 56 | 벨기에 (BEL) |  | 372 | 아일랜드 (IRL) |  | 203 | 체코 (CZE) |  | 254 | 프랑스령 기아나 (GUF) |
| 430 | 라이베리아 (LBR) |  | 112 | 벨라루스 (BLR) |  | 31 | 아제르바이잔 (AZE) |  | 152 | 칠레 (CHL) |  | 260 | 프랑스령 남부와 남극 지역 (ATF) |
| 428 | 라트비아 (LVA) |  | 84 | 벨리즈 (BLZ) |  | 4 | 아프가니스탄 (AFG) |  | 120 | 카메룬 (CMR) |  | 258 | 프랑스령 폴리네시아 (PYF) |
| **643** | **러시아 (RUS)** |  | 70 | 보스니아 헤르체고비나 (BIH) |  | 20 | 안도라 (AND) |  | 132 | 카보베르데 (CPV) |  | 242 | 피지 (FJI) |
| 422 | 레바논 (LBN) |  | 72 | 보츠와나 (BWA) |  | 8 | 알바니아 (ALB) |  | 398 | 카자흐스탄 (KAZ) |  | 246 | 핀란드 (FIN) |
| 426 | 레소토 (LSO) |  | 68 | 볼리비아 (BOL) |  | 12 | 알제리 (DZA) |  | 634 | 카타르 (QAT) |  | **608** | **필리핀 (PHL)** |
| 638 | 레위니옹 (REU) |  | 108 | 부룬디 (BDI) |  | 24 | 앙골라 (AGO) |  | 116 | 캄보디아 (KHM) |  | 612 | 핏케언 제도 (PCN) |
| 642 | 루마니아 (ROU) |  | 854 | 부르키나파소 (BFA) |  | 28 | 앤티가 바부다 (ATG) |  | 124 | 캐나다 (CAN) |  | 334 | 허드 맥도널드 제도 (HMD) |
| 442 | 룩셈부르크 (LUX) |  | 74 | 부베 섬 (BVT) |  | 660 | 앵귈라 (AIA) |  | 404 | 케냐 (KEN) |  | 348 | 헝가리 (HUN) |
| 646 | 르완다 (RWA) |  | 64 | 부탄 (BTN) |  | 232 | 에리트레아 (ERI) |  | 136 | 케이맨 제도 (CYM) |  | 344 | 홍콩 (HKG) |
| 434 | 리비아 (LBY) |  | 580 | 북마리아나 제도 (MNP) |  | 233 | 에스토니아 (EST) |  | 174 | 코모로 (COM) |  |  |  |
| 440 | 리투아니아 (LTU) |  | 100 | 불가리아 (BGR) |  | 218 | 에콰도르 (ECU) |  | 188 | 코스타리카 (CRI) |  |  |  |
| 438 | 리히텐슈타인 (LIE) |  | 76 | 브라질 (BRA) |  | 231 | 에티오피아 (ETH) |  | 166 | 코코스 제도 (CCK) |  |  |  |
| 450 | 마다가스카르 (MDG) |  | 96 | 브루나이 (BRN) |  | 222 | 엘살바도르 (SLV) |  | 384 | 코트디부아르 (CIV) |  |  |  |
| 474 | 마르티니크 (MTQ) |  | 882 | 사모아 (WSM) |  | **826** | **영국 (GBR)** |  | 170 | 콜롬비아 (COL) |  |  |  |

 Appendix 3. Industry Code

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| **농업, 임·어업, 광업 (Agriculture, Forestry & Fishing, Mining)** |    | **금융, 보험, 부동산업 (Financial Institutions, Insurance, Real Estate)** |
| 1 | 농업 | Agriculture |    | 64 | 금융업 | Financial Institutions, Except Insurance and Pension Funding |
| 4 | 임업 및 어업 | Forestry & Fishing |    | 65 | 보험 및 연금업 | Insurance and Pension Funding |
| 9 | 광업 | Mining and quarrying |    | 66 | 금융 및 보험 관련 서비스업 | Activities Auxiliary to Financial Service and Insurance Activities |
|  |  |  |    | 68 | 부동산업 | Real Estate Activities |
| **제조업 (Manufacture)** |    |    |
| 10 | 식료품·음료제조업 | Manufacture of Food Products & Beverages |    | **연구개발, 전문 서비스업 (Research, Professinal Services)** |
| 13 | 섬유제품 제조업 | Manufacture of Textiles |    | 701 | 자연과학 및 공학 연구개발업 | Research and Experimental Development On Natural Sciences and Engineering |
| 16 | 목재 및 나무제품 제조업 | Manufacture of Wood Products of Wood and Cork |    | 702 | 인문 및 사회과학 연구개발업 | Research and Experimental Development On Social Sciences and Humanities |
| 18 | 인쇄 및 기록매체 복제업 | Printing and Reproduction of Recorded Media |    | 71 | 전문서비스업 | Professional Services |
| 20 | 화학물질 및 화학제품 제조업;의약품 제외 | Manufacture of chemicals and chemical products except pharmaceuticals, medicinal chemicals |    | 72 | 건축기술, 엔지니어링 및 기타 과학기술 서비스업 | Architectural, Engineering and Other Scientific Technical Services |
| 21 | 의료용 물질 및 의약품 제조업 | Manufacture of Pharmaceuticals, Medicinal Chemicals and Botanical Products |    | 73 | 기타 전문, 과학 및 기술 서비스업 | Professional, Scientific and Technical Services, n.e.c. |
| 22 | 고무제품 및 플라스틱제품 제조업 | Manufacture of Rubber and Plastic Products |    |    |
| 23 | 비금속 광물제품 제조업 | Manufacture of Other Non-metallic Mineral Products |    | **사업시설관리, 지원 서비스업(Business facilities management and support services)** |
| 24 | 1차 금속 제조업 | Manufacture of Basic Metal Products |    | 76 | 사업시설관리 및 사업지원 서비스업 | Business facilities management and business support services |
| 25 | 금속가공제품 제조업;기계 및 가구 제외 | Manufacture of Fabricated Metal Products, Except Machinery and Furniture |    |    |
| 26 | 전자부품, 컴퓨터, 영상, 음향 및 통신장비 제조업 | Manufacture of Electronic Components, Computer, Radio, Television and Communication Equipment and Apparatuses |    | **공공행정 (Public administration)** |
| 27 | 의료, 정밀, 광학기기 및 시계 제조업 | Manufacture of Medical, Precision and Optical Instruments, Watches and Clocks |    | 84 | 공공행정, 국방 및 사회보장 행정 | Public administration and defence ; compulsory social security |
| 28 | 전기장비 제조업 | Manufacture of electrical equipment |    |    |
| 29 | 기타 기계 및 장비 제조업 | Manufacture of Other Machinery and Equipment |    | **교육서비스업 (Education)** |
| 30 | 자동차 및 트레일러 제조업 | Manufacture of Motor Vehicles, Trailers and Semitrailers |    | 851 | 초등교육기관(유아 포함) | Primary Education(Pre-Primary also) |
| 31 | 기타 운송장비 제조업 | Manufacture of Other Transport Equipment |    | 852 | 중등교육기관 | Secondary Education |
| 34 | 제조업 기타 | Manufacture, n.e.c. |    | 853 | 고등교육기관 | Higher Education |
|    |    | 854 | 특수학교, 외국인학교 및 대안학교 | Schools for the Handicapped and Foreigners, Alternative Schools |
| **전기, 가스, 수도, 환경, 건설업 (Electricity, Gas, Wate Supply, Remediation, Construction)** |    | 855 | 일반 교습 학원 | General Private Educational Institute |
| 35 | 전기, 가스, 증기 및 수도사업 | Electricity, gas, steam and water supply |    | 856 | 기타 교육기관 | Adult and Other Education |
| 40 | 하수·폐기물 처리, 원료재생 및 환경복원업 | Sewerage, waste management, materials recovery and remediation activities |    | 857 | 교육지원 서비스업 | Educational Support Activities |
| 43 | 건설업 | Construction |    |    |
|    |    | **보건, 사회복지업 (Human health and social work activities)** |
| **도·소매, 운수, 숙박, 음식점업 (Wholesale, Retail Trade, Transportation, Accommodation, Food)** |    | 86 | 보건업 | Human Health |
| 45 | 자동차 및 부품 판매업 | Sale of Motor Vehicles and Parts |    | 87 | 사회복지 서비스업 | Social Work Activities |
| 46 | 도매 및 상품중개업 | Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles |    |    |
| 47 | 소매업; 자동차 제외 | Retail Trade, Except Motor Vehicles and Motorcycles |    | **예술, 스포츠 및 여가관련 서비스업 (Arts, sports and recreation related services)** |
| 53 | 운수업 | Transportation |    | 90 | 창작, 예술 및 여가관련 서비스업 | Creative, Arts and Recreation Related Services |
| 55 | 숙박업 | Accommodation |    | 91 | 스포츠 및 오락관련 서비스업 | Sports activities and amusement activities |
| 56 | 음식점 및 주점업 | Food and beverage service activities |    |    |
|    |    | **협회 및 단체, 개인서비스, 국제 및 외국기관 (Membership Organizations, Personal Services, Extra-Territorial Organizations)** |
| **출판, 영상, 방송통신 및 정보서비스업 (Information and communications)** |    | 94 | 협회 및 단체 | Membership Organizations |
| 58 | 출판업 | Publishing activities |    | 95 | 수리업 | Maintenance and Repair Services |
| 59 | 영상·오디오 기록물 제작 및 배급업 | Motion picture, video and television programme production, sound recording and music publishing activities |    | 96 | 기타 개인 서비스업 | Other Personal Services Activities |
| 60 | 방송업 | Broadcasting |    | 99 | 국제 및 외국기관 | Extra-Territorial Organizations and Bodies |
| 61 | 통신업 | Telecommunications |    |    |    |    |
| 62 | 컴퓨터 프로그래밍, 시스템 통합 및 관리업 | Computerprogramming,consultancyandrelatedactivities  |    |    |    |    |
| 63 | 정보서비스업 | Information service activities |  |  |  |  |