



Questionnaire for 2023 Ph.D. Graduates

Questionnaire ID :

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※ Please do not write on the Questionnaire ID section.

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. 920009)**, all the information you provide will be kept strictly confidential under **the Personal Information Protection Act(Article 58, Paragraph 1(Except for some applications))** and **the Statistics Act(Article 5(Relationship with other Acts), Article 33(Protection of Secrets))**, and will be used for statistical purposes only.

Basic Demographic Information

Full Name		Sex	<input type="checkbox"/> ① Male <input type="checkbox"/> ② Female							
Year of Birth	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table> (YYYY)					Nationality*	<input type="checkbox"/> ① Korea <input type="checkbox"/> ② Other (Country Code: <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>)			
Major										

* If your nationality is not Korea, please write down your country code (refer to Appendix 2).

Degree Information

Type of Degree	Date of Entrance/ Graduation (YYYY/MM)	Name of University	Field Code* (refer to the sample)	Department Code**	Type of University	Type of Graduate School	Location of Institution***											
(1) Bachelor	Entrance	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<input type="checkbox"/> ① National or Public <input type="checkbox"/> ② Private	-	<input type="checkbox"/> ① Korea <input type="checkbox"/> ② Other	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>		
Graduation	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>																	
(2) Master	Entrance	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<input type="checkbox"/> ① National or Public <input type="checkbox"/> ② Private	<input type="checkbox"/> ① General <input type="checkbox"/> ② Professional <input type="checkbox"/> ③ Specialized	<input type="checkbox"/> ① Korea <input type="checkbox"/> ② Other	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>		
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(3) Doctorate	Entrance	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>			<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>					<input type="checkbox"/> ① National or Public <input type="checkbox"/> ② Private	<input type="checkbox"/> ① General <input type="checkbox"/> ② Professional	<input checked="" type="checkbox"/> ① Korea	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>		
Graduation	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px; text-align: center;">2</td><td style="width: 20px; height: 20px; text-align: center;">0</td><td style="width: 20px; height: 20px; text-align: center;">2</td><td style="width: 20px; height: 20px; text-align: center;">3</td></tr></table>	2	0	2	3	<table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 20px; height: 20px; text-align: center;">0</td><td style="width: 20px; height: 20px; text-align: center;">8</td></tr></table>	0	8										
2	0	2	3															
0	8																	
↳	Please check in the box if you have graduated master & doctoral combined degree program							<input type="checkbox"/>										

***<Field Code>** Please choose one of the seven categories which best describes your major field of degree.
 Education=1, Arts and Humanities=2, Social sciences, Journalism and Information=3, Business, Administration and Law=4,
 Natural sciences, Mathematics and Statistics=5, Information and Communication Technologies=6,
 Engineering, Manufacturing and Construction=7, Agriculture, Forestry, Fishery and Veterinary=8, Health and Welfare=9, Services=10
 ** 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, Gyeonggi=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.
- ※ If you have any questions about the survey, please feel free to contact us as below.

Kwangnam JANG KRIVET 044-415-5149 knjang@krivet.re.kr
Hyunsik CHOI KRIVET 044-415-3803 hyun.choi@krivet.re.kr

I. Doctoral Degree Program

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

(1) from Admission to Coursework Completion <input type="checkbox"/> ① Full-time student <input type="checkbox"/> 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. ※ Part-time student refers to one spending most of time studying during the doctoral program while working at the same time. It includes the employed, employer and self-employed with no employees (Own-account worker) as well.
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2. Have you ever taken a leave of absence during your program?

(1) Taking leave of absence <input type="checkbox"/> ① Yes, I have. <input type="checkbox"/> ② No, I have not. ➡ Go to item 3.	(2) Total semester(s) of absence () semester(s)	(3) Main Reason for leave <input type="checkbox"/> ① financial issues <input type="checkbox"/> ② work/duties-related issues <input type="checkbox"/> ③ marriage, child care, housework or family-related issues <input type="checkbox"/> ④ health issues <input type="checkbox"/> ⑤ military service-related issues <input type="checkbox"/> ⑥ others
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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? (excluding the scholarship or tuition-exemption)

- | | | |
|---|--|---|
| <input type="checkbox"/> ① less than 10 million KRW | <input type="checkbox"/> ② 10~20 million KRW | <input type="checkbox"/> ③ 20~30 million KRW |
| <input type="checkbox"/> ④ 30~40 million KRW | <input type="checkbox"/> ⑤ 40~50 million KRW | <input type="checkbox"/> ⑥ 50~60 million KRW |
| <input type="checkbox"/> ⑦ 60~70 million KRW | <input type="checkbox"/> ⑧ 70~80 million KRW | <input type="checkbox"/> ⑨ more than 80 million KRW |

3-2. How was it paid?

(1-1) Self-funded		()%	
(1-2) Family Support (Support from parents, siblings, spouse, etc.)		()%	
(2) Scholarship	Korea	(2-1) Fellowship/ Scholarship	()%
		(2-2) Grant	()%
		(2-3) Research Assistantship (R.A.)	()%
		(2-4) Teaching Assistantship (T.A.) or Other Administrative Assistantships	()%
		(2-5) Academic Excellence Scholarship	()%
	Other	(2-6) non-Korean Scholarship	()%
(3) Student Loan		()%	
(4) Financial assistance from employers		()%	
(5) Others		()%	

※ '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)~(5) (calculated on the basis of the total tuition fee) is 100. (Put "0" for items which are not relevant for you).

4. Have you published journal articles during the doctoral course and how many journal articles have been published ever? (*including articles accepted for publication)

4-1. Have you published journal articles during the doctoral course?

- ① Yes, I have. ➡ Go to item 4-2. ② No, I have not. ➡ Go to item 5.

4-2. How many journal articles have you published during the doctoral course?

Author Status	Number of Articles	Domestic		Overseas	
		KCI	Other	SCI(E)/SSCI/A&HCI	Other
1 st author					
Co-author					

※ Please put "0" if you do not have any published articles.

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

	(1) Participation	(2) Total Number of Projects Participated	(3)Funding Source of the Project	(4) Total Participation Period
(1)	<input type="checkbox"/> ① Yes <input type="checkbox"/> ② No ➡ Go to item 5.(2-1)	Total ()	Central/ Local Government () Corporation () Other ()	<div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div> Month(s)
(2)	(2-1) BK21Plus Participation	(2-2) programs supported by BK21Plus (mark one or more)		(2-4) Total Participation Period of BK21Plus
	<input type="checkbox"/> ① Yes <input type="checkbox"/> ② No ➡ Go to item 6.	<input type="checkbox"/> ① Short-term overseas study <input type="checkbox"/> ② Long-term overseas study <input type="checkbox"/> ③ Corporate internship (incl. filed placement) <input type="checkbox"/> ④ Participation in domestic and overseas academic conferences and submission of academic papers <input type="checkbox"/> ⑤ Scholarship <input type="checkbox"/> ⑥ Others		<div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div> Month(s)

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

➡ After answering, go to item 6-1.

- | | |
|--|--|
| <input type="checkbox"/> ① To be a professor/professional researcher | <input type="checkbox"/> ② To get a job/change a job |
| <input type="checkbox"/> ③ To promote in workplace | <input type="checkbox"/> ④ To gain honor |
| <input type="checkbox"/> ⑤ To improve professional expertise | <input type="checkbox"/> ⑥ To get a qualification |
| <input type="checkbox"/> ⑦ For self-achievement | <input type="checkbox"/> ⑧ Others |

6-1. Why did you decide to acquire a doctoral degree in Korea?

➡ After answering, go to item 'II. Plan after Graduation and State of Employment'.

- | | |
|--|---|
| <input type="checkbox"/> ① Due to opportunities for financial aid (scholarship, RA etc.) | <input type="checkbox"/> ② Due to a good research environment (research facilities, etc.) |
| <input type="checkbox"/> ③ Due to the quality of faculty, curriculum, etc. | <input type="checkbox"/> ④ Due to a cheaper cost of living in Korea |
| <input type="checkbox"/> ⑤ To get a job in Korea | <input type="checkbox"/> ⑥ To study and work at the same time |
| <input type="checkbox"/> ⑦ Due to family-related issues | <input type="checkbox"/> ⑧ Due to interest in Korean Culture |
| | <input type="checkbox"/> ⑨ Others |

II. Plan after Graduation and State of Employment

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

- ① Stay in Korea ➡ go to item 8. ② Go abroad (Country Code:) ➡ go to item 7-1.

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

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

- | | |
|---|---|
| <input type="checkbox"/> ① To do a postdoc abroad | <input type="checkbox"/> ② To get a job/ return to a former job |
| <input type="checkbox"/> ③ To live abroad | <input type="checkbox"/> ④ To return to your homeland (if non-Korean) <input type="checkbox"/> ⑤ Others |

8. Are you currently employed or admitted for employment?

- ① Employed (except postdoc/ lecturer) ➡ Go to item 'III. (Admitted) Employees'.
- ② Admitted for employment ➡ Go to item 'III. (Admitted) Employees'.
- (except postdoc/ lecturer)
- ③ Admitted for a postdoc ➡ Go to item 'III. (Admitted) Employees'.
- ④ Admitted for a lecturer ➡ Go to item 'III. (Admitted) Employees'.
- ⑤ Unemployed, on job searching ➡ Go to item 'IV. Job Seekers and Career Changers'.
- ⑥ Unemployed, no plan for job searching ➡ Go to item 8-1.

8-1. Why are you not planning to search for a job?

➡ Go to item 19.

- | |
|--|
| <input type="checkbox"/> ① Marriage, Child care, Housework or Family-related issues |
| <input type="checkbox"/> ② Planning to start own business |
| <input type="checkbox"/> ③ Planning to take exams and other preparations for qualification or employment |
| <input type="checkbox"/> ④ Health issues |
| <input type="checkbox"/> ⑤ Preparing to study abroad or further study |
| <input type="checkbox"/> ⑥ Military service-related issues |
| <input type="checkbox"/> ⑦ Others |

III. (Admitted) Employees

9. What is your current 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 with no employees (Own-account worker) → Go to item 10.
- ⑥ Unpaid Family Worker → Go to item 10.

※ **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 with no 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)

※ irregular (full-time): Work hours are more than 30 hours per week.

※ irregular (part-time): Work hours are less than 30 hours per week.

10. What type of workplaces 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 (including a company-affiliated research institute)
- ⑥ Public Company
- ⑦ Private Company
- ⑧ Started a Business/Self-employed (including a freelancer)
- ⑨ Other Education Institute
- ⑩ Hospital/ Medical Institution (including a university hospital)
- ⑪ Foundation/ Corporation/ Association etc.
- ⑫ Others

※ Please check on 'university' if you are affiliated to central 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.

(1) Overseas Employment or not	(2) Location*	(3) Industry type**	(4) Number of Employees***
<input type="checkbox"/> ① Korea	(City/Province: <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>)	(Industry Code: <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>)	<input type="checkbox"/> ① 1 ~ 29 persons <input type="checkbox"/> ② 30 ~ 99 persons <input type="checkbox"/> ③ 100 ~ 299 persons <input type="checkbox"/> ④ 300 ~ 999 persons <input type="checkbox"/> ⑤ more than 1,000 persons
<input type="checkbox"/> ② Overseas	(Country Code: <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/> <input style="width: 30px;" type="text"/>)		

* 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).

*** Please choose the Number of Employees based on the relevant institute if your workplace are universities or company-affiliated research institutes.

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

- ① Managers
 - ② Professionals and Related Workers → Go to item 12-1.
 - ③ Clerks
 - ④ Service Workers
 - ⑤ Sales Workers
 - ⑥ Skilled Agricultural, Forestry and Fishery Workers
 - ⑦ Craft and Related Trades Workers
 - ⑧ Equipment, Machine Operating and Assembling Workers
 - ⑨ Elementary Workers
 - ⑩ Armed Forces
- Go to item 13.

12-1. What is your specific occupational type?

- ① Biological and Natural Science Related Professionals Technicians
- ② Liberal Arts and Social Science Professionals
- ③ Information and Communication Professionals and Technical Occupations
- ④ Engineering Professionals and Technical Occupations
- ⑤ Health, Social Welfare and Religion Related Occupations
- ⑥ Education Professionals and Related Occupations
- ⑦ Legal and Administrative Occupations
- ⑧ Business and Finance Professionals and Related Occupations
- ⑨ Culture, Arts and Sports Professionals and Related Occupations

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 20 million KRW/year ② 20~30 million KRW/year ③ 30~40 million KRW/year
④ 40~50 million KRW/year ⑤ 50~60 million KRW/year ⑥ 60~70 million KRW/year
⑦ 70~80 million KRW/year ⑧ 80~100 million KRW/year ⑨ more than 100 million KRW/year

** 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 Not at all ② slightly ③ quite a bit ④ strongly

IV. Job Seekers and Career Changers

*** Are you planning to get a job or change your job?**

- ① On Job Searching ② Planning to Career Change ③ None ➡ Go to item 'V. Postdoctoral Program'.

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 (including a company-affiliated research institute)
⑥ Public Company ⑦ Private Company ⑧ Started a Business/Self-employed (including a freelancer)
⑨ Other Education Institute ⑩ Hospital/ Medical Institution (including a university hospital)
⑪ Foundation/ Corporation/ Association etc. ⑫ Others

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

- ① Salary 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 Fringe benefits
⑨ Personal aptitude ⑩ Others

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

- ① less than 20 million KRW/year ② 20~30 million KRW/year ③ 30~40 million KRW/year
④ 40~50 million KRW/year ⑤ 50~60 million KRW/year ⑥ 60~70 million KRW/year
⑦ 70~80 million KRW/year ⑧ 80~100 million KRW/year ⑨ more than 100 million KRW/year

V. Postdoctoral Program

19. Are you planning to apply for Postdoctoral Programs?

- ① Admitted as a postdoctoral researcher ➡ Go to item 20. ② Plan (Prepare) to apply ➡ Go to item 20. ③ None. ➡ Go to item 'VI. Lecturer'.

20. Where is the location of the program?

- ① Korea ➡ Go to item 21. ② Abroad (Country Code:) ➡ Go to item 20-1.

** 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 postdoctoral program
② Plan to come back after finishing the postdoctoral 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 postdoctoral program)
④ Plan to keep staying abroad

21. Where is source of funding for the program? ➡ After answering, go to item 'VI. Lecturer'.

- ① University ② Government ③ Public Research Institute
④ Private Research Institute ⑤ Private Company ⑥ Others

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) ③ None **☛ Survey termination. Thank you.**

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

(1) Total Number of Lectures that you will hold	(2) Total Credit of Lectures	(3) Total Lecture Fees
() Lectures	() Credits	<input type="checkbox"/> ① month ()million KRW <input type="checkbox"/> ② semester ()million 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, advising

② 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 survey

② Offering publications using research data on doctorate holders

③ Reflection of advisory group's opinion when collecting data for policy-making

④ 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 _____

2023 . . .



Ministry of Education



Korea Research Institute for
Vocational Education & Training

Appendix 1. Department Codes List

(1) 교육 (Education)		
11	교육	Education

(2) 예술 및 인문학 (Arts and Humanities)		
211	시청각 기술 및 미디어 제작	Audio-visual techniques and media production
212	패션 디자인	Fashion design
213	인테리어 및 산업 디자인	Interior and industrial design
214	미술	Fine arts
215	공예	Handicrafts
216	음악 및 공연예술	Music and performing arts
219	기타 예술	Arts, Other
22	인문학(어문학 제외)	Humanities (except languages)
23	어문학	Languages

(3) 사회과학, 언론 및 정보학 (Social sciences, Journalism and Information)		
311	경제학	Economics
312	정치학 및 시민학	Political sciences and civics
313	심리학	Psychology
314	사회학 및 문화연구	Sociology and cultural studies
32	언론 및 정보학	Journalism and information

(4) 경영, 행정 및 법 (Business, Administration and Law)		
41	경영 및 행정	Business and administration
42	법	Law

(5) 자연과학, 수학 및 통계학 (Natural sciences, Mathematics and Statistics)		
51	생물학 및 관련 과학	Biological and related sciences
52	환경	Environment
531	화학	Chemistry
532	지구 과학	Earth sciences
533	물리학	Physics
54	수학 및 통계학	Mathematics and statistics

(6) 정보통신 기술 (ICTs: Information and Communication Technologies)		
611	컴퓨터 활용	Computer use
612	데이터베이스 및 네트워크 설계·운영	Database and network design and administration
613	소프트웨어 및 응용프로그램 개발·분석	Software and applications development and analysis

(7) 공학, 제조 및 건설 (Engineering, Manufacturing and Construction)		
711	화학공학 및 공정	Chemical engineering and processes
712	환경보호 기술	Environmental protection technology
713	전기 및 에너지	Electricity and energy
714	전자 및 자동화	Electronics and automation
715	기계 및 금속	Mechanics and metal trades
716	자동차, 선박 및 항공기	Motor vehicles, ships and aircraft
719	기타 공학	Engineering, Other
72	제조 및 가공	Manufacturing and processing
73	건축 및 건설	Architecture and construction

(8) 농림어업 및 수의학 (Agriculture, Forestry, Fishery and Veterinary)		
81	농업	Agriculture
82	임업	Forestry
83	어업	Fisheries
84	수의학	Veterinary

(9) 보건 및 복지 (Health and Welfare)		
911	치의학	Dental studies
912	의학	Medicine
913	간호 및 조산	Nursing and midwifery
914	의료진단 및 치료기술	Medical diagnostic and treatment technology
915	치료요법 및 재활	Therapy and rehabilitation
916	약학	Pharmacy
917	한의학 및 대체 의학·치료요법	Korean and complementary medicine and therapy
919	기타 보건	Health, Other
92	복지	Welfare

(10) 서비스 (Services)		
1011	생활 서비스	Domestic services
1012	이·미용 서비스	Hair and beauty services
1013	숙박, 외식 및 조리 서비스	Hotel, restaurant and catering
1014	스포츠	Sports
1015	여행, 관광 및 여가	Travel, tourism and leisure
1019	기타 개인 서비스	Personal services, Other
102	위생 및 산업보건 서비스	Hygiene and occupational health services
103	보안 서비스	Security services
104	운송 서비스	Transport services

Appendix 2. Country Code

288	Ghana (GHA)	584	Marshall Islands (MHL)	682	Saudi Arabia (SAU)	92	British Virgin Islands (VGB)	178	Congo (COG)
266	Gabon (GAB)	175	Mayotte (MYT)	239	South Georgia And The South Sandwich Islands (SGS)	86	British Indian Ocean Territory (IOT)	180	Democratic Republic of the Congo (COD)
328	Guyana (GUY)	446	Macau (MAC)	674	San Marino (SMR)	887	Yemen (YEM)	192	Cuba (CUB)
270	Gambia (GMB)	807	Macedonia (MKD)	678	Sao Tome And Principe (STP)	512	Oman (OMN)	414	Kuwait (KWT)
831	Guernsey Island (GGY)	454	Malawi (MWI)	666	Saint-Pierre-et-miquelon (SPM)	36	Australia (AUS)	184	Cook Islands (CKI)
312	Guadeloupe (GLP)	458	Malaysia (MYS)	732	Western Sahara (ESH)	40	Austria (AUT)	191	Croatia (HRV)
320	Guatemala (GTM)	466	Mali (MLI)	666	Senegal (SEN)	340	Honduras (HND)	162	Christmas Islands (CXI)
316	Guam (GUM)	833	Ile of Man (IMN)	688	Serbia (SRB)	248	Aland (ALA)	417	Kyrgyzstan (KGZ)
308	Grenada (GRD)	484	Mexico (MEX)	690	Seychelles (SYC)	400	Jordan (JOR)	296	Kiribati (KIR)
300	Greece (GRC)	492	Monaco (MCO)	662	Saint Lucia (LCA)	800	Uganda (UGA)	196	Cyprus (CYP)
304	Greenland (GRL)	504	Morocco (MAR)	670	Saint Vincent And The Grenadines (VCT)	858	Uruguay (URY)	764	Thailand (THA)
324	Guinea (GIN)	480	Mauritius (MUS)	659	Saint Kitts And Nevis (KNA)	860	Uzbekistan (UZB)	762	Tajikistan (TJK)
624	Guinea-Bissau (GNB)	478	Mauritania (MRT)	654	Saint Helena (SHN)	804	Ukraine (UKR)	834	Tanzania (TZA)
516	Namibia (NAM)	508	Mozambique (MOZ)	706	Somalia (SOM)	876	Wallis And Futuna Islands (WLF)	796	Turks And Caicos Islands (TCA)
520	Nauru (NRU)	499	Montenegro (MNE)	90	Solomon Islands (SLB)	368	Iraq (IRQ)	792	Turkey (TUR)
566	Nigeria (NGA)	500	Montserrat (MSR)	736	Sudan (SDN)	364	Iran (IRN)	768	Togo (TGO)
10	Antarctica (ATA)	498	Moldova (MDA)	740	Suriname (SUR)	376	Israel (ISR)	772	Tokelau (TKL)
728	South Sudan (SSD)	462	Maldives (MDV)	144	Sri Lanka (LKA)	818	Egypt (EGY)	776	Tonga (TON)
710	South Africa (ZAF)	470	Malta (MLT)	744	Svalbard And Jan Mayen Island (SJM)	380	Italy (ITA)	795	Turkmenistan (TKM)
528	Netherlands (NLD)	496	Mongolia (MNG)	748	Swaziland (SWZ)	360	Indonesia (IDN)	798	Tuvalu (TUV)
530	Netherlands Antilles (ANT)	840	United States of America (USA)	752	Sweden (SWE)	356	India (IND)	788	Tunisia (TUN)
524	Nepal (NPL)	581	United States Minor Outlying Island (UMI)	756	Switzerland (CHE)	392	Japan (JPN)	780	Trinidad And Tobago (TTO)
578	Norway (NOR)	850	US Virgin Islands (VIR)	724	Spain (ESP)	388	Jamaica (JAM)	591	Panama (PAN)
574	Norfolk Island (NFK)	104	Myanmar (MMR)	703	Slovakia (SVK)	894	Zambia (ZMB)	600	Paraguay (PRY)
540	New Caledonia (NCL)	583	Micronesia (FSM)	705	Slovenia (SVN)	832	Jersey (JEY)	586	Pakistan (PAK)
554	New Zealand (NZL)	548	Vanuatu (VUT)	760	Syria (SYR)	226	Equatorial Guinea (GNQ)	598	Papua New Guinea (PNG)
570	Niue (NIU)	48	Bahrain (BHR)	694	Sierra Leone (SLE)	408	Democratic People's Republic of Korea (PRK)	585	Palau (PLW)
562	Niger (NER)	52	Barbados (BRB)	702	Singapore (SGP)	268	Georgia (GEO)	275	Palestine (PSE)
558	Nicaragua (NIC)	336	Vatican City State (VAT)	784	United Arab Emirates (ARE)	140	Central African Republic (CAF)	234	Faroe Islands (FRO)
410	Republic of Korea (KOR)	44	Bahamas (BHS)	533	Aruba (ABW)	158	Taiwan (TWN)	604	Peru (PER)
208	Denmark (DNK)	50	Bangladesh (BGD)	51	Armenia (ARM)	156	China (CHN)	620	Portugal (PRT)
212	Commonwealth of Dominica (DMA)	60	Bermuda (BMU)	32	Argentina (ARG)	262	Djibouti (DJI)	238	Falkland Islands (FLK)
214	Dominican Republic (DOM)	204	Benin (BEN)	16	American Samoa (ASM)	292	Gibraltar (GIB)	616	Poland (POL)
276	Germany (DEU)	862	Venezuela (VEN)	352	Iceland (ISL)	716	Zimbabwe (ZWE)	630	Puerto Rico (PRI)
626	East Timor (TLS)	704	Vietnam (VNM)	332	Haiti (HTI)	148	Chad (TCD)	250	France (FRA)
418	Laos (LAO)	56	Belgium (BEL)	372	Ireland (IRL)	203	Czech (CZE)	254	French Guiana (GUF)
430	Liberia (LBR)	112	Belarus (BLR)	31	Azerbaijan (AZE)	152	Chile (CHL)	260	French Southern Territories (ATF)
428	Latvia (LVA)	84	Belize (BLZ)	4	Afghanistan (AFG)	120	Cameroon (CMR)	258	French Polynesia (PYF)
643	Russia (RUS)	70	Bosnia Hercegovina (BIH)	20	Andorra (AND)	132	Cape Verde (CPV)	242	Fiji (FJI)
422	Lebanon (LBN)	72	Botswana (BWA)	8	Albania (ALB)	398	Kazakhstan (KAZ)	246	Finland (FIN)
426	Lesotho (LSO)	68	Bolivia (BOL)	12	Algeria (DZA)	634	Qatar (QAT)	608	Philippines (PHL)
638	Reunion (REU)	108	Burundi (BDI)	24	Angola (AGO)	116	Cambodia (KHM)	612	Pitcairn (PCN)
642	Romania (ROU)	854	Burkina Faso (BFA)	28	Antigua And Barbuda (ATG)	124	Canada (CAN)	334	Heard And Mc Donald Islands (HMD)
442	Luxembourg (LUX)	74	Bouvet Island (BVT)	660	Anguilla (AIA)	404	Kenya (KEN)	348	Hungary (HUN)
646	Rwanda (RWA)	64	Bhutan (BTN)	232	Eritrea (ERI)	136	Cayman Islands (CYM)	344	Hong Kong (HKG)
434	Libya (LBY)	580	Northern Mariana Islands (MNP)	233	Estonia (EST)	174	Comoros (COM)		
440	Lithuania (LTU)	100	Bulgaria (BGR)	218	Ecuador (ECU)	188	Costa Rica (CRI)		
438	Liechtenstein (LIE)	76	Brazil (BRA)	231	Ethiopia (ETH)	166	Cocos Islands (CKI)		
450	Madagascar (MDG)	96	Brunei (BRN)	222	El Salvador (SLV)	384	Cote D'ivoire (CIV)		
474	Martinique (MTQ)	882	Samoa (WSM)	826	United Kingdom (GBR)	170	Colombia (COL)		

Appendix 3. Industry Code

농업, 임업 및 어업 (Agriculture, forestry and fishing)		
01	농업	Agriculture
02	임업	Forestry
03	어업	Fishing and aquaculture

광업 (Mining and quarrying)		
05	석탄, 원유 및 천연가스 광업	Mining of coal, crude petroleum and natural gas
06	금속 광업	Mining of metal ores
07	비금속광물 광업; 연료용 제외	Mining of non-metallic minerals, except fuel
08	광업 지원 서비스업	Mining support service activities

제조업 (Manufacturing)		
10	식품품 제조업	Manufacture of food products
11	음료 제조업	Manufacture of beverages
12	담배 제조업	Manufacture of tobacco products
13	섬유제품 제조업; 의복 제외	Manufacture of textiles, except apparel
14	의복, 의복 액세서리 및 모피제품 제조업	Manufacture of wearing apparel, clothing accessories and fur articles
15	가죽, 가방 및 신발 제조업	Manufacture of leather, luggage and footwear
16	목재 및 나무제품 제조업; 가구 제외	Manufacture of wood and of products of wood and cork; except furniture
17	펄프, 종이 및 종이제품 제조업	Manufacture of pulp, paper and paper products
18	인쇄 및 기록매체 복제업	Printing and reproduction of recorded media
19	코크스, 연탄 및 석유정제품 제조업	Manufacture of coke, briquettes and refined petroleum products
20	화학 물질 및 화학제품 제조업; 의약품 제외	Manufacture of chemicals and chemical products; except pharmaceuticals and medicinal chemicals
21	의약품 물질 및 의약품 제조업	Manufacture of pharmaceuticals, medicinal chemical and botanical products
22	고무 및 플라스틱제품 제조업	Manufacture of rubber and plastics products
23	비금속 광물제품 제조업	Manufacture of other non-metallic mineral products
24	1차 금속 제조업	Manufacture of basic metals
25	금속 가공제품 제조업; 기계 및 가구 제외	Manufacture of fabricated metal products, except machinery and furniture
26	전자 부품, 컴퓨터, 영상, 음향 및 통신장비 제조업	Manufacture of electronic components, computer; visual, sounding and communication equipment
27	의료, 정밀, 광학 기기 및 시계 제조업	Manufacture of medical, precision and optical instruments, watches and clocks
28	전기장비 제조업	Manufacture of electrical equipment
29	기타 기계 및 장비 제조업	Manufacture of other machinery and equipment
30	자동차 및 트레일러 제조업	Manufacture of motor vehicles, trailers and semitrailers
31	기타 운송장비 제조업	Manufacture of other transport equipment
32	가구 제조업	Manufacture of furniture
33	기타 제품 제조업	Other manufacturing
34	산업용 기계 및 장비 수리업	Maintenance and repair services of industrial machinery and equipment

숙박 및 음식점업 (Accommodation and food service activities)		
55	숙박업	Accommodation
56	음식점 및 주점업	Food and beverage service activities

정보통신업 (Information and communication)		
58	출판업	Publishing activities
59	영상·오디오 기록물 제작 및 배급업	Motion picture, video and television programme production, sound recording and music publishing activities
60	방송업	Broadcasting activities
61	우편 및 통신업	Postal activities and telecommunications
62	컴퓨터 프로그래밍, 시스템 통합 및 관리업	Computer programming, consultancy and related activities
63	정보서비스업	Information service activities

금융 및 보험업 (Financial and insurance activities)		
64	금융업	Financial service activities, except insurance and pension funding
65	보험 및 연금업	Insurance and pension funding
66	금융 및 보험관련 서비스업	Activities auxiliary to financial service and insurance activities

부동산업 (Real estate activities)		
68	부동산업	Real estate activities

전문, 과학 및 기술 서비스업 (Professional, scientific and technical activities)		
701	자연과학 및 공학 연구개발업	Research and experimental development on natural sciences and engineering
702	인문 및 사회과학 연구개발업	Research and experimental development on social sciences and humanities
71	전문 서비스업	Professional services
72	건축 기술, 엔지니어링 및 기타 과학기술 서비스업	Architectural, engineering and other scientific technical services
73	기타 전문, 과학 및 기술 서비스업	Other professional, scientific and technical services

사업시설 관리, 사업 지원 및 임대 서비스업 (Business facilities management and business support services; rental and leasing activities)		
74	사업시설 관리 및 조경 서비스업	Business facilities management and landscape services
75	사업 지원 서비스업	Business support services
76	임대업; 부동산 제외	Rental and leasing activities; except real estate

공공 행정, 국방 및 사회보장 행정 (Public administration and defence; compulsory social security)		
84	공공 행정, 국방 및 사회보장 행정	Public administration and defence; compulsory social security

전기, 가스, 증기 및 공기 조절 공급업 (Electricity, gas, steam and air conditioning supply)		
35	전기, 가스, 증기 및 공기 조절 공급업	Electricity, gas, steam and air conditioning supply

수도, 하수 및 폐기물 처리, 원료 재생업 (Water supply; sewage, waste management, materials recovery)		
36	수도업	Water supply
37	하수, 폐수 및 분뇨 처리업	Sewage, wastewater, human animal waste treatment services
38	폐기물 수집, 운반, 처리 및 원료 재생업	Waste collection, treatment and disposal activities; materials recovery
39	환경 정화 및 복원업	Remediation activities and other waste management services

건설업 (Construction)		
41	종합 건설업	General construction
42	전문직별 공사업	Specialized construction activities

도매 및 소매업 (Wholesale and retail trade)		
45	자동차 및 부품 판매업	Sale of motor vehicles and parts
46	도매 및 상품 중개업	Wholesale trade on own account or on a fee or contract basis
47	소매업; 자동차 제외	Retail trade, except motor vehicles and motorcycles

운수 및 창고업 (Transportation and storage)		
49	육상 운송 및 파이프라인 운송업	Land transport and transport via pipelines
50	수상 운송업	Water transport
51	항공 운송업	Air transport
52	창고 및 운송관련 서비스업	Warehousing and support activities for transportation

교육 서비스업 (Education)		
851	초등 교육기관	Pre-primary and primary education
852	중등 교육기관	Secondary education
853	고등 교육기관	Higher education
854	특수학교, 외국인학교 및 대안학교	Special schools, foreign schools, alternative schools
855	일반 교습학원	General educational institute
856	기타 교육기관	Other educational institute
857	교육 지원 서비스업	Educational support activities

보건업 및 사회복지 서비스업 (Human health and social work activities)		
86	보건업	Human health activities
87	사회복지 서비스업	Social work activities

예술, 스포츠 및 여가관련 서비스업 (Arts, sports and recreation related services)		
90	창작, 예술 및 여가관련 서비스업	Creative, arts and recreation related services
91	스포츠 및 오락관련 서비스업	Sports activities and amusement activities

협회 및 단체, 수리 및 기타 개인 서비스업 (Membership organizations, repair and other personal services)		
94	협회 및 단체	Membership organizations
95	개인 및 소비용품 수리업	Maintenance and repair services of personal and household goods
96	기타 개인 서비스업	Other personal services activities

가구 내 고용활동 및 달리 분류되지 않은 자가 소비 생산활동 (Activities of household as employers: undifferentiated goods-and services-producing activities of)		
97	가구 내 고용활동	Activities of households as employers of domestic personnel
98	달리 분류되지 않은 자가 소비를 위한 가구의 재화 및 서비스 생산활동	Undifferentiated goods-and services- producing activities of private households for own use

국제 및 외국기관 (Activities of extraterritorial organizations and bodies)		
99	국제 및 외국기관	Activities of extraterritorial organizations and bodies