



## (Type 1-2) Application Form for 2020 Korea Research Fellowship

Ministerial program title (Level 1)		Global Researcher Invitation Program		Security level (classified, general)		General	
Ministerial program title (Level 2)		Korea Research Fellowship(KRF) program		Disclosure (open, closed)		Open	
① Program title (Level 3)		Korea Research Fellowship(KRF) program		Type		Type 1-2(overseas=> Korea)	
② Standard area in science and technology		Area 1 (Hierarchy code/classification)		Area 2 (Hierarchy code/classification)		Area 3 (Hierarchy code/classification)	
		EE0503/satellite navigation		ED1113/navigation		ND1408/space geodesy	
③ Classification (RB area)		(CRB area) Please refer to the guideline in the following page		(RB area 1) mandatory		(RB area 2)	
④ Preference fields(Research fields)		Smart Factory, Smart Farm, Smart City, FinTech, New Energy Industry, or N/A		Type of Host Institution		Gov.t supported research institutes, Nat'l and public research institutes, universities, nonprofit research institutes and corporate research institutes	
⑤ 10 major science technology field		①Electronic information communication		(Other field)			
⑥ Project title		Korean English		Please refer to the guideline in the following page			
⑦ Host institution				⑧ Corporate registration number		If applicable	
⑨ Host researcher (Principal Investigator)		Name		Position (Rank)			
		Department		Major			
⑩ Overseas post-doc researcher (Currently residing overseas and entering into Korea after selected as a KRF fellow)		Name (Date of Birth)		Nationality(Gender)		U.S.A(Man/Women)	
		Degree-granting institution		Korean Ethnicity		Korean National or ethnic Korean or N/A	
		Country of current residence		Year of degree (country)		2015. May (U.S.A)	
		Canada (Has to match the country of your current affiliate)		Affiliation (department)		University of ..... (Dep. of Geomatics)	
⑪Details of R&D costs *Unit: Thousand Korean won							
Details of KRF program budget							
Year	Personnel costs (A)	Personnel costs (B) (Matching Funds)	Living Expenses (C)	Living Expenses (Matching Funds) (D)	Other expenses (E)	Grants for host institution (F)	Total (A+C+E+F)
Year 1							
Year 2							
Year 3							
Year 4							
Year 5							
Total							
⑫ Total period of research			2020. 9. 1. - 2024. 12. 31 (___ months)				
⑬ Period of research in the year of 2020			2020. 9. 1. - 2020. 12. 31 (___ months)				
<p>I hereby submit the research plan with the intent to sincerely conduct this R&amp;D project in compliance with all relevant regulations and directions.</p> <p style="text-align: center;">MM/DD/YYYY</p> <p style="text-align: center;">Host Researcher: (Signature)</p> <p style="text-align: center;">Head of Host Institution: (Seal)</p> <p style="text-align: center;">Addressee: President of the National Research Foundation of Korea</p>							

## Guidelines

② Search and enter the relevant code for standard areas in science and technology (**National S&T Standard Areas** (Research Areas))

Search codes at ernd.nrf.re.kr	Enter hierarchy code/classification
	

- Example:

Area 1 (Hierarchy code/classification)	Area 2 (Hierarchy code/classification)	Area 3 (Hierarchy code/classification)
EE0503/satellite navigation	ED1113/navigation	ND1408/space geodesy

③ RB areas: RB areas by discipline in Appendix

CRB area	RB area 1	RB area 2
Mathematics	Applied statistics	Applied mathematics

\* Please state the name of CRB department (engineering, natural science, life science, medical science, ICT/convergent areas, etc.) and the specific area under CRB (mathematics, Construction and Transportation, etc.)

\* Please state RB areas under the CRB area categories

\* (Remark) Selection evaluation panel will be classified depending on the CRB, RB, and will be evaluated relatively with other projects within the same panel.

④ **Preference fields:** Please choose one or two of the category from below (duplicate is allowed)

#8 leading industry technology fields: ① Smart Factory ② Smart Farm ③ Smart City ④ FinTech ⑤ New Energy Industry ⑥ Drone ⑦ Future Vehicle ⑧ Bio Health ⑨ Materials ⑩ Components ⑪ Equipment  
#3 strategic investment fields : ① Data Economics (Big Data/Block Chain/Sharing Economy) ② Artificial Intelligence ③ Hydrogen Economy

⑤ **10 Categories for Science and Technology or (If not applicable ) state as “other area”**

- Please choose one of the category from below:

① Electronic Information and Communication Technology ② Health Care ③ Biology  
④ Material mechanical process ⑤ Energy resource high technology ⑥ Aerospace ⑦ Earth and Marine Environment ⑧ Nano Materials ⑨ Construction and Transportation ⑩ Disaster prevention

\* Others: Areas lacking Korean professional human resources, convergent areas, etc.

→ Please state the name of the applicable area (major)

⑥ Project title: Describe the project name that can represent this program, both in Korean and English

→ Please note that the project will not be considered for evaluation in the case where host researcher **uses the same project title with a current ongoing project**. So the project title needs to be **specific in detail and focusing on the specific aims of research in order to utilize Overseas post-doc researcher**.

⑧ If a host institution does not have its **corporate registration number**, please leave it blank.

⑨ **Host researcher(KRF Applicant):** Provide personal information of a person responsible for research in Korea who will serve as a host PI

⑩ **Overseas post-doc researcher(KRF Candidate):** Provide personal information of the post-doc researcher who will participate in the project

->Type 1-2 : KRF candidates who are currently residing overseas and belong to overseas affiliate, and are planning to enter into Korea for research after selected as a KRF fellow ( In the case of candidates who are temporarily residing in Korea and belong to an overseas affiliate are acceptable)

⑪ **R&D costs**

- Personnel costs, Living expenses: Up to KRW 100 million per annum
- Other expenses: Up to KRW 5 million per annum; grants for host institutions: Up to KRW 5 million per annum

※ Refer to Program guidelines for further details.

⑫,⑬ **Research Period** (Commence KRF research within 4 months from the date of final selection)

KRF Year	KRF Period
1 <sup>st</sup> Year	2020.9.1.~2020.12.31. (Max. 4 months)
2 <sup>nd</sup> Year	2021.1.1.~2021.12.31. (12 months)
3 <sup>rd</sup> Year	2022.1.1.~2022.12.31. (12 months)
4 <sup>th</sup> Year	2023.1.1.~2023.12.31. (12 months)
5 <sup>th</sup> Year	2024.1.1.~2024.12.31. (12 months)

※ Unexpected systematic problems may occur if a number of project submissions are concentrated around the deadline for submission. We advise you to ensure sufficient time to upload your application and relevant references on the ERND system before deadline.

## Summary (Korean)

Form A201

Purpose (around 500 characters)	※ Research goals to be pursued through this project		
Research content and methods (around 1,000 characters)	※ Specific details and methods to achieve research goals		
Competency (Candidate, host researcher, host institution)	※ Summary of research career and competence of the Host researcher(PI, KRF Applicant) and overseas post-doc researcher(KRF candidate) who will participate in this project		
Expected Contribution (around 500 characters) (including applied areas and scope of utilization)			
Keywords	(            )		
	(            )		
	(            )		

Note) The number of characters includes blanks. No image, numerical formula, or table may be inserted, and only em symbols are allowed for special characters or symbols. (The length must not exceed one page.)

Note) Content regarding research purpose, content, expected contribution, and keywords (only the first three lines) are all mandatory items.

## Summary (English)

양식 A202

Purpose (around 500 characters)			
Contents (around 1,000 characters)			
Competence (Candidate, host researcher, host institution)			
Expected Contribution			
Keywords			

Note) The number of characters includes blanks. No image, numerical formula, or table may be inserted, and only em symbols are allowed for special characters or symbols. (The length must not exceed one page.)

## **2. Necessity for Support & Safety Management Measures**

### **① Current status of related areas**

- ※ Explain the technological level of the relevant area in South Korea, the current status of workforce, industry, and future prospects. (Describe in detail; at least one page or more)
- Possibly include the current status of policy for the relevant area, and statistics regarding human resources (together with grounds for citation)

### **② Necessity for the government's budgetary support and for hosting and utilizing overseas human resources**

- ※ Is it necessary for the Korean government to support this research project through the KRF program (Describe in detail; at least one page or more)
- ※ Why is it necessary to host an overseas postdoc researcher? (Describe from the perspective of the country, related areas, and institution)

### **③ Analyze technical risk of the research & safety management measures**

- ☞ Please state the plan for safety measures while working with an overseas postdoc researcher for any technical risk and possible issue of information leak while conducting the research (safety issue, security of data, etc.) (The safety measures can be providing safety education to the researchers, analyzing the amount of managing lab safety, equipping the required safety facilities etc.)

## II. Overseas Post-doc Researcher(Candidate)

※ This Chapter II shall be written by the KRF candidate (either in Korean or English)  
Please refer to the guidelines for each section and state in details within 10 pages of Chapter II.

### 1. General Information of Overseas Post-doc Researcher

#### ① Personal information

Name	Name (English)			Date of birth	1980.5.31
	Contact (mobile)			E-mail	
	Korean Ethnicity	Korean National or Ethnic Korean or N/A			
	Language proficiency * check where applicable	Korean	Fluent( ) Intermediate( ) Elementary( ) None( )	Nationality	
		English	Fluent( ) Intermediate( ) Elementary( ) None( )		
		Other	Fluent( ) Intermediate( ) Elementary( ) None( )	Country of residence	
Current residence (workplace)	Address	30566 Sanford Ave, Flushing, .... , U.S.A		Telephone	(718) 961-0000
Home	Address	30566 Sanford Ave, Flushing, .... , U.S.A		Telephone	(718) 961-0000

※KRF candidates for Type 1-2 : Your current physical address and affiliation should be overseas.

#### ② Education (from the latest degree)

Year			Academic background		
From		To	University	Major	Professor
PH.D.	YYYY.MM	YYYY.MM			
Master	YYYY.MM	YYYY.MM			
Bachelor	YYYY.MM	YYYY.MM			
Thesis title for the latest degree					

※ Please state your period of Doctoral degree based on your physical diploma (provisional certificate is not accepted)

### ③ Career

Year (from/to)		Institution	City	Country	Remark
YYYY.MM	YYYY.MM		Tokyo	Japan	
YYYY.MM	YYYY.MM		New York	U.S.A	

### ④ Publication of research papers

#### A) Korean or foreign academic journal (including IF of SCI-level papers)

① S.B. Kim, C.J Lee, S.Y Kim, "OOOO vehicle navigation in harsh urban conditions by global positioning system....., IET Radar, Sonar and Navigation, vol.5, no.8, pp.814-823, Oct. 2011) (I.F = 1.6)

② S.B. Kim, C.J Lee, S.Y Kim, "OOOO vehicle navigation in harsh urban conditions by global positioning system....., IET Radar, Sonar and Navigation, vol.5, no.8, pp.814-823, Oct. 2011) (I.F = 1.6)

#### B) Patent (registration)

① 1234567 – April 27, 200 – Process And Apparatus For ..... (in U.S.A)

② 1234567 – April 27, 200 – Process And Apparatus For ..... (in U.S.A)

#### C) Others (awards/prizes, technology transfer, commercialization, etc.)

### ⑤ Representative R&D achievements

- Doctoral Thesis: Title, thesis director, gist of the thesis, etc.
- Representative thesis or R&D achievements, R&D activities, etc.
- Others

: If applicable, attach proof at the last page of this research plan, for example: utilization of research achievements within the small & middle sized companies



## 2. Overseas Post-doc Researcher's Research Plans and Vision for KRF program

### ① Reason for application

※ Why did you decide to apply for the KRF program? (Describe in detail, one page or more)

### ② Plans for conducting research projects

※ Do you have capacity and detailed plans for successfully conducting the research project? And are you willing to participate in the KRF program? (Describe in detail by including the following items; at least 3 pages or more)

- The overseas candidate's thoughts on his/her roles; measures to conduct and contribute to research project; degree of preparedness for participating in the KRF program
- Plans for exchanges and joint research with the Host researcher of the KRF program and other Korean researchers

※ Utilizing research achievements/accomplishments of the candidate

Your plan to utilize in Korean research area of research accomplishments/achievements

-Please provide detailed plans (In case your research achievements utilize domestic small & middle sized companies' which face difficulties securing technology, MOU or any proof that showing the company's name on it) (If applicable, attach proof at the last page of this research plan)

### ③ Plans for life in Korea (on a long term basis)

※ What is your plan for settling in Korea during the KRF program tenure? (Describe in detail, one page or more)

- Including plans for moving to Korea, such as relocation, residence, family affairs, etc.
- How to get acquainted with host and any communications

④ Plans following the completion of the KRF program

※ What is your plan after the completion of your research under the KRF program, such as plans regarding research goals, career or other activities, occupation, residence, or country of residence? (Describe in detail, , one page or more)

⑤ Expected contribution to the KRF program

※ How will you contribute to reinforcing Korea's R&D capacity through your participation in the KRF program, and what will be the degree of your contribution? (Possible roles or advantages regarding collaboration with overseas research institutes or researchers, introduction of technology, international networks, etc.)

### 3. Others

① Any ideas/suggestion for KRF program

I(KRF Candidate) certify the above information to be accurate and correct in Chapter II.

Name : \_\_\_\_\_ Signature: \_\_\_\_\_

# III. Support for Utilization and Growth of Overseas Post-doc Researcher

Please refer to the guidelines for each section and state in details within total 15 pages of chapter “III. Support for Utilization and Growth of Overseas Post-doc Researcher” and chapter “IV. Details of Budget Request”

## 1. Host Researcher (KRF Applicant)

### ① Personal information

Name	Korean			Mobile				
	Researcher registration no.			E-mail				
Workplace	Address	Post code		Telephone				
				FAX				
Home	Address	Post code		Telephone				
Liaison officer	Name		Tel.		Mobile		E-mail	

Note) For liaison officer, provide the information of a participating researcher who can handle affairs on behalf of the Host researcher when contact with the latter is not possible.

### ② Education

						Form A302
Year		Academic Records				Degree <sup>Note)</sup>
From	To	University	Univ. Code(no.)	Major	Professor	
YYYY.MM	YYYY.MM					
YYYY.MM	YYYY.MM					
YYYY.MM	YYYY.MM					
Thesis title for the latest degree						

Note) Degree (choose one): Associate's program, associate's degree, undergraduate program, bachelor's degree (conferred), master's program, master's degree(conferred), doctoral program, doctoral degree (conferred), post-doc training, etc.

Note) Visit <http://emnd.nrf.go.kr/> for the “Search Code “menu to look for a university code by entering the name of the institution.

### ③ Career

Year (from/to)		Institution	Position (Rank)	Remark
YYYY.MM	YYYY.MM			
YYYY.MM	YYYY.MM			

### ④ Publication of research papers

(Provide up to five representative achievements of the latest three years in direct relationship with this project)

A) Specialized Korean or foreign academic journal (including IF of SCI-level papers)

① S.B. Kim, C.J Lee, S.Y Kim, "OOOO vehicle navigation in harsh urban conditions by global positioning system....., IET Radar, Sonar and Navigation, vol.5, no.8, pp.814-823, Oct. 2011) (I.F = 1.6)

② S.B. Kim, C.J Lee, S.Y Kim, "OOOO vehicle navigation in harsh urban conditions by global positioning system....., IET Radar, Sonar and Navigation, vol.5, no.8, pp.814-823, Oct. 2011) (I.F = 1.6)

B) Patent (registration)

① 1234567 – April 27, 200 – Process And Apparatus For ..... (in U.S.A)

② 1234567 – April 27, 200 – Process And Apparatus For ..... (in U.S.A)

C) Others (awards/prizes, technology transfer, commercialization, etc.)

### ⑤ Current status of participation in national R&D projects (underway or recently completed)

(Unit: Korean Thousand won)

Form A501

Name	Name of the project	Institute	Date of start	Participated period (months)	Rate of participation
Registration no. of Researchers	Name of the ministry/business	Types of participation	Date of completion	Amount of research funds/ year	
			yyyy.mm.dd		
			yyyy.mm.dd		

※ Indicate as either Host researcher or participating researcher in the field of 'Participation type.'

### ⑥ Others

※ Scale of research teams, facilities, etc. currently in operation

※ Any similar situation happened in your lab (Successful international joint research, invites any foreign researchers)

## 2. Plans to Utilize Overseas Post-doc Researcher

① Necessity and role of the overseas post-doc researcher (for conducting the research project)

※ How is the post-doc researcher (candidate) necessary, and what is candidate's role in conducting the relevant research project? (Describe in detail; at least 5 pages or more)

- Include the specific role, division of work among the existing research team, the reason the candidate is necessary for the relevant project, etc.
- Mandatory to secure research expenses and research expense scale (direct expenses) for the overseas researcher (including specific project names, resources, participation rates for overseas researcher in the case of securing direct expenses by participating in other national R&D projects)

② Plans to utilize overseas post-doc researcher as a means to strengthen national R&D capacity

※ How will utilization of the overseas post-doc researcher provide assistance to domestic researchers and research fields? (Describe in detail; at least one page or more)

- Include how the candidate's project will contribute to the related area, such as expanding domestic and international networks, improving Korean researchers' capacity, introducing outstanding foreign technology, cooperating with overseas research institutes and researchers, and sharing research outcomes.

③ Plans to utilize Overseas Post-doc Researcher by supporting research of Korean small & medium sized companies, if applicable.

※ How will utilization of the overseas post-doc researcher's research competency and know-how provide assistance to solve the difficulties of domestic small & middle sized companies (please describe specific support plans by stating the target companies, etc., if applicable).

※ After selected, the results of the company's technical evaluation report, satisfaction level, etc. are reflected on the annual evaluation which will decide whether to continue or not

### 3. Support for Growth of Overseas Post-doc Researcher

① Measures to support career development and other growth of overseas post-doc researcher (during the KRF tenure)

※ What are the measures to develop the overseas post-doc researcher into a mid-career researcher during the period for the KRF program? (Describe in detail; at least two pages or more)

- Include training, career development, exchange and collaboration with Korean researchers, capacity enhancement, etc. for the overseas post-doc researcher

② Long-term vision for the overseas post-doc researcher (after the program's completion)

※ What is the long-term vision to motivate the overseas post-doc researcher to passionately engage in research? (Describe in detail; at least one page or more)

- Plans for continued utilization of the overseas post-doc researcher through full-time employment, job placement, or settlement in Korea after the completion of the KRF program

③ Long Term Career Development plan (Road Map)

※ Please state your current strength & weakness by filling out the table below

	As is (The current status of the candidate)	To be (Future goal)
Competency and qualification		
Specialized knowledge		
Responsibility and role of your work		
Lab environment		
Personal values and personality		
The future prospect for related area and the future goal of your job		
Etc.		

## 4. Support and Infrastructure of Host Institution

### ① Plans for support of budget and research space

※ What are the plans to support business expenses for the institution, and research costs (direct cost) and personnel costs, as well as research space for the overseas post-doc researcher?

- Research costs (direct costs) are mandatory, while matching funds for personnel costs is optional.
- Please provide the detailed information of support (name of project/program/ respective department, duration of research and budget, etc.)

### ② Plans to support the overseas post-doc researcher's settlement in Korea

※ Plans for supporting residence (e.g. dormitory), medical benefits, children's education, or other conveniences, as well as consultation

- Plans regarding setting up an assigned staff (his/her department & role) in order to support the KRF fellow during the KRF program tenure are mandatory.

※ (Remark) Assigned Staff : An assigned staff can be anyone of the host institution, for example school staff, administrative, lab mate who can communicate well with the Overseas Post-doc Researchers in a linguistic way, support daily life in Korea, and help with administrative issues (No fixed qualification required regardless of his/her degree, position, etc.). (For Type 1-2 , allowance 200,000 won or more per month shall be paid to the buddy from KRF budget under Subsidies of the host institution)

### ③ Infrastructure of the Host Institution

※ Include the possibility of organizing and utilizing an exclusive organization for foreign nationals and cooperating networks, and the institution's preferential treatment of the KRF fellow.

### ④ Others

※ The role and willingness of host institution to provide support the KRF fellow, etc.

※ Describe the institution's comparative advantages, such as the offering of full-time employment to the KRF fellow, or collaboration with current researchers.

## **5. Evidential documents and introduction for corporate research institute**

**(Applicable in the case that the host institution is the corporate research institute)**

① Evidential document for corporate research institute

※ please attach here the scanned document



## <Additional documents>

No.	Title of Forms	Condition
1	Agreement to personal information utilization ( refer to the Attachment 2)	Mandatory
2	Pledge Agreement of Executing Contract of Integrity (INTEGRITY DECLARATION) ( refer to the Attachment 3, in Korean)	
3	Resume of the overseas post-doc researcher	
4	Letter of reference for the overseas post-doc researcher	
5	Other certificates (Language-related certificates, transcripts, etc.)	If applicable
6	Evidential document for corporate research institute	
7	Latest degree certificate and career (employment) certificate of the post-doc researcher	After selected
8	Host institution's confirmation to provide support	

**\*The Selection can be withdrawn if relevant documents are not submitted after selection, or if documents are not submitted in accordance with the requirements**

## < FAQ regarding “Additional Documents” to be submitted>

### [Written languages of documents]

**O If any documents required are written in a language other than Korean or English, please submit certified translations for all foreign language documents into Korean or English.**

**\*KRF application form shall be written in Korean by KRF applicant (host researcher), however, portions regarding academic contents can be written in English in order to share research plans with the KRF candidates. “ Chapter II. Overseas Post-doc Researcher (Candidate)” shall be written by KRF candidate in Korean or English**

### [Required documents]

**O Résumé of the post-doc researcher: No fixed form(2~3pages)**

**O Letters of reference for the overseas post-doc researcher:**

**2 or more recommendations including from PhD professors except for the host researcher (no fixed form)**

[ Submission of documents after selection]

**O Doctoral degree certificate of the post-doc researcher:**

**KRF candidate's physical doctoral degree certificate or diploma (copy).**

**(Provisional certificates are not acceptable and your KRF selection will be cancelled)**

- ※ Only official certifications stating the degree conferral date issued by your degree awarded by the university can be granted. Certificates not showing a degree conferral date or provisional certificates are not acceptable.

**O . Host Institution's Confirmation:**

**Reconfirmation of host institution's support for the candidate stated at "III-4. Support and Infrastructure of Host Institution"- make one page stamped on the head of the institution.  
(No fixed form)**

- ※ This guideline has been translated from original Korean documents with regards to Korean research. Therefore, this translation has focused on providing the main contents and points to overseas researchers for better understanding and subject to change without prior notice. **In the event of any discrepancy between the Korean original and this English translation, the Korean original shall prevail.** We assume no responsibility for this translation or for direct, indirect or any other form of damage arising from the translation.