|  |  |
| --- | --- |
| Attachment 2 | **Job opening for Research Professionals**  **[Research Scientist ]** **Data Assimilation** |

The Korea Institute for Atmospheric Prediction Systems (KIAPS) is a research institution based in Seoul, established in 2011 to lead development of the core operational NWP systems for the Korea Meteorological Administration (KMA). The first KIAPS global NWP system was made operational at KMA in April 2020, and is now providing forecast skill that is comfortably within the range of the world's leading NWP centers.

In collaboration with developers at KMA, approximately 80 scientific and technical staff at KIAPS – including around 30 staff in the data assimilation (DA) group - are now developing a full Earth system NWP capability aiming at the extended medium range, and also a high-resolution NWP capability for short-range forecasting over East Asia.

We are seeking an experienced DA scientist to help us develop one or both of our ensemble-based atmospheric DA systems:

1. Our hybrid-4DEnVar system for production of global deterministic analyses, which was developed within KIAPS from scratch.
2. Our LETKF system for global and regional ensemble initialization.

The areas of work will be selected according the successful candidate’s experience, interests and abilities. Possibilities include:

* Improving the general scientific formulation of our systems. (E.g. background error covariance formulation, minimization method, observation processing, etc..)
* Helping to improve assimilation of particular observation types, such as the assimilation of radar reflectivity observations in our LETKF-based regional ensemble.
* DA diagnostics development.
* Computational optimization.
* Improving the quality and structure of our (Fortran) source code.

The basic annual salary will be in the range 49,000,000 – 95,000,000 Korean won, calculated according to a (non-negotiable) formula based on qualifications and experience. A performance-related bonus will be also be awarded at the end of each year.

KIAPS is a relatively new and compact institution, and is one of the few organizations in the world that has direct responsibility for the development of operational NWP systems for a national weather service, with a large degree of autonomy in decision making. Thus, a KIAPS scientist can have a major influence on NWP systems that have a direct impact on society, while developing their profile and publication record as a researcher.

While most of KIAPS's business is conducted in Korean, English-language levels are generally high amongst the research staff, so scientists who are fluent in English but have little or no knowledge of the Korean language should find the language barrier to be a relatively small concern. The KIAPS administration team includes English-speaking staff who are ready to help organize work visas, living arrangements, and so on.

The KIAPS offices are located in an attractive part of central Seoul, with excellent local facilities and first-class transport links to other parts of Seoul and beyond. For general information about KIAPS, please visit our Korean and English-language home page at [www.kiaps.org](file:///C%3A%5CUsers%5Cuser%5CDocuments%5CBizboxA%5Cwww.kiaps.org).

Applications should be emailed to [recruit@kiaps.org](file:///C%3A%5CUsers%5Cuser%5CDocuments%5CBizboxA%5Crecruit%40kiaps.org), which is also the contact point for general enquires about KIAPS or the application process.

**Director of KIAPS**

 **Korea Institute of Atmospheric Prediction Systems**

|  |  |  |  |
| --- | --- | --- | --- |
| **Ⅰ** |  | Job Description |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Position Title** | **Number of Positions** | **Name of Institute****(Location)** |
| Data Assimilation | Research Scientist | 1 | KIAPS(Seoul) |
|  |  |
| **Main Task** | * Help develop one or both of KIAPS’s ensemble-based atmospheric data assimilation systems: the global hybrid-4DEnVar system, or the global/regional LETKF.
 |
|  |  |
| **Required Attributes & Competencies** | * **(General Competency)** Fairness, Integrity, Responsibility, Customer oriented.
* **(Positional Competency)** Positivity, Problem-solving skills, Teamwork, English communication skills.
* **(Functional Competency)** Analytical skills, Programming skills, Technical expertise.
 |
|  |  |
| **Skills & Knowledge** | * Proven ability to deliver high-quality research outputs in the field of ensemble-based data assimilation.

※ At least 1 year of experience working on data assimilation systems.* Proven ability in developing scientific software.
* Proficient verbal and written communication skills in English, as evidenced by published results and oral presentations. (Korean-language skill not required.)
 |
|  |  |
| **Required Qualifications** | (**Academic Major**) The applicant’s most recent major field should have been closely related to the research area; e.g. mathematics, physics, atmospheric science, meteorology, physics, oceanography, environmental or Earth science. |
| (**Academic Degree and Subsequent Experience)** Applicants with at least one of the following:* A Ph.D holder, or expectation to obtain a Ph.D by August 2024.
* A Master’s degree and at least 7 years of further relevant experience.
* A Bachelor’s degree and at least 10 years of further relevant experience.

※ “Further relevant experience” means time working in the field of numerical weather prediction or climate research. |
| **Preferred Qualifications** | * Experience developing changes for operational numerical weather prediction systems.
* Experience developing Fortran 90 code for high-performance supercomputers.
 |
| **Extra Credits** | * **(Experience)** Extra years of professional experience in a relevant field, along with the required qualifications.
* **(Research Performance)** Proven research outcomes.
* **(Meteorology Certification)** “Engineer Meteorology” or “Professional Engineer - Weather Forecaster” certificate holder.
* **(Language)** Scores from English-language proficiency tests (TOEIC, TOFEL, etc.), for applicants from countries where English is not the primary language.
 |
| **Additional****Points by Law** | Persons who are eligible for employment assistance will receive additional score increases as follows: * Persons with employment assistance: 10% increase in scores.
* Persons with disabilities: 5% increase in scores.
 |

※ You must meet qualification requirements by the closing date of this announcement.

|  |  |  |
| --- | --- | --- |
| **Ⅱ** |  | Conditions of Employment |

| **Classification** | **Main conditions** | **Remarks** |
| --- | --- | --- |
| **Period** | Until the end of 2026, when the current KIAPS project will finish. |  |
| **Working Hours** | Full time. (Total 40 hours per week.) | The KIAPS regulations allow some flexibility of working schedule, within the hours 7am to 7pm, Monday to Friday. |
| **Location** | KIAPS (Dongjak-gu, Seoul). | - |
| **Pay** | * Set according to the KIAPS payment standards.
* Further incentives according to research performance.
 | Working conditions are negotiable based on the relevant regulations at KIAPS.The annual salary will depend on the candidate’s career and expertise. Starting salaries will be in the range 49,000,000 ~ 95,000,000 Korean won per year. |
| **Employee Benefits** | * Enrollment in the four major Korean insurance schemes:
1. Employment Insurance.
2. Industrial Accident Compensation Insurance.
3. National Pension.
4. National Health Insurance.
* Enrollment in the KIAPS employee benefit points system.
* Settlement subsidy support, including organizing work visas.
 |

|  |
| --- |
| **Grounds for Disqualification** * Disqualification according to any subparagraph of Article 33 of Korea’s State Public Officials Act, or according to KIAPS regulations.
* Persons whose civil rights have been suspended or deprived by law.
* Evasion of Korean military service. (Male Korean nationals only.)
* Failure to submit the required documents.
* Submission of false information.
* Persons who have been found to have been employed by another Korean public institution in an illegal manner and have been dismissed from employment, and five years have not elapsed from the date of disposition.
 |
| **Ⅲ** |  | Application Documents |

| **Category** | **Contents** | **Remarks** |
| --- | --- | --- |
| **Required Documents** | **Required documents for the initial application.*** **Mandatory Submission**
1. Application form. (Attached file no. 3.)
2. Consent to Collection and Use of Personal Information. (Attached file no. 4.)
* **If applicable,**
1. Curriculum Vitae, including publication list
2. Research Statement & a Copy of Dissertation

**Required documents prior to interview.**1. Copies of academic certificates/diplomas.
2. Copies of documents proving previous employment.
 | Note that KIAPS follows the Korean blind recruitment procedure under the ”Fair Hiring Practice Act”, which prohibits collection of the following information;candidate’s age, names of universities enrolled in, names of former university advisors, or family relationships.Please do not attach a photograph of yourself to the application. |
| **Submission Method** | Please send the application documents via email to recruit@kiaps.org, with the subject**"Application for DA research scientist position”.** |  |
| **Application Period** | **April 22, 2024 ~ May 21, 2024** |  |
| **Inquiries** | Recruitment office(E-Mail) recruit@kiaps.org / (Call) +82-2-6480-6321 |  |

|  |  |  |
| --- | --- | --- |
| **Ⅳ** |  | Recruitment Schedule |

| **Stage** | **Date** | **Remarks** |
| --- | --- | --- |
| 1st stage (Document Screening) | TBD | Application can be written in Korean or English.  |
| 2nd stage (Interviews) | TBD | * On-site interview for applicants currently residing in Korea.
* Online (WEBEX) interviews for applicants currently residing outside of Korea

Applicants who score 60% or over per test (expertise, disposition) with an average score of 60 points or above will pass. The position will be offered to the applicant with the highest score. (If only one person is being recruited and more than one person receives the same score, interviews shall be held again for the respective applicants.) |
| 3rd stage(Background Check) | TBD | Confirmation of evidential documents regarding the entries in the application. |
| Final Announcement | TBD | Individual notification. |

※ The above schedule is subject to change depending on internal circumstances.

|  |  |  |
| --- | --- | --- |
| **Ⅴ** |  | Applicant Precautions |

|  |
| --- |
| * Failure to submit required documents will result in disqualification without advance notice. Please double-check all documents upon submission.
* We will reject applications from people who have been subject to legal discipline (especially for violent crimes such as sexual assault, sexual harassment, sex trafficking, or domestic violence) or who were suspended from their organization of employment at the time of the impropriety.
* If the contents of the application for examination differ from the contents of the documentary evidence, a separate committee will determine the severity of the error and decide whether to disqualify the application.
* Application revisions are not allowed after final submission.
* The selected applicants need to acquire and submit the necessary documents to successfully obtain a suitable working visa.
* Newly-recruited employees with a foreign nationality will be requested to submit a criminal background check issued by their government agency in order for us to issue the work visa.
* The schedule and contents of the recruitment process are subject to change depending on internal circumstances, and changes shall be notified individually to affected applicants.
* In the event of any discrepancy between the English and the Korean job announcement, the Korean version shall take precedence.
 |

|  |
| --- |
| ❍ Submitted documents, including application documents, shall be returned if requested according to the following procedure.  - Basis: 「Hiring Procedure Act」 Article 28 (Return of Hiring Documents). - Submission Method: Email to recruit@kiaps.org. - Other remarks: All provided documents shall be destroyed after the above-stated application period for return. Requests for return after this period will not be accepted. |

[Attachment]

1. **Job Description in Korean**
2. **Job Description in English**
3. **Application Form**
4. **Consent to Collection and Use of Personal Information**