

2025-1 Recruitment Announcement for the Research Fellow at the Center for Quantum Conversion Research

Institute for Basic Science (IBS) is a national research institute established in accordance with Article 14 of “the Special Act on Establishment of and Support for International Science and Business Belts”. IBS aims to discover creative knowledge and secure original technologies through world-class basic science research.

The IBS Center for Quantum Conversion Research in Gwanju, Korea invites applications for research fellowship positions. Center for Quantum Conversion Research is located at the GIST in Gwangju, South Korea, a city of 1.4 million people. The Center is dedicated to developing advanced and innovative methodologies for observing and controlling the quantum conversion of matter, which serves as the foundation for energy and chemical conversion. The research places significant emphasis on the investigation of the fundamental energetic processes of matter, particularly at the highest spatiotemporal and energy resolutions, to enable more detailed observation and understanding of these processes. The ultimate goal of the QCR is to control the conversion among various quantum states of materials by manipulating the internal and external environments for creating new material systems with innovative functionalities and superior properties.

□ Recruitment Area and Openings

Job Category	Recruitment Area	Required Qualifications and preferences	Affiliation (workplace)	No. of Openings
Research Fellow	Condensed matter physics, nano-optics or surface science related fields	<ul style="list-style-type: none"> ▪Degree: Earned a doctoral degree or a master’s degree with at least five years’ research experience as of the appointment date ▪Major: Related to condensed matter physics, nano-optics or surface science ▪Preferences <ol style="list-style-type: none"> 1) 5 years or more research experience in the recruitment area after PhD degree. 2) Having experience in research/development/analysis of single atom/molecule level optics or transport using theoretical methods 3) Having experience of collaboration with experiments using STM 	IBS Center for Quantum Conversion Research (GIST in Gwangju)	1
Total				1

※ The final number of appointees may change according to the screening results and please refer to the job description for more detailed information on the work duties/responsibilities and qualifications.

□ Screening Process

Category	Schedule (Expected)	Detail
Step 1 (Application Submission)	Jan.10(Fri.) ~ Jan.31(Fri.)	<ul style="list-style-type: none"> ◦ Application method: Submit application documents via email to kym@ibs.re.kr ◦ Required Documents: CV, Research Proposal (1-page PDF, in English), At least one letter of Recommendation, Personal Information collection and use consent form (attached), Application confirmation form (attached) <i>*The letter of recommendation must be submitted directly by the recommender; recommendation submitted by the applicant will not be accepted.</i>
Step 2 (Document screening)	~Feb.11.	<ul style="list-style-type: none"> ◦ Review items: Relevance to the recruitment area, expertise in research achievement, work capability, development potential, etc. ◦ Eligibility: Applicants who have met the required qualification ◦ Select up to three times the number of candidates than open positions for the next screening step. Select applicants with the highest average scores (minimum average score: 80).
Step 3 (Interview screening)	~Feb.20.	<ul style="list-style-type: none"> ◦ Review items: Expertise in the recruitment area, presentation skill, attitude, problem solving skills, development potential, fluency in foreign languages(English), etc. ◦ Eligibility: Applicants who pass the document screening ◦ Select the final candidates with the highest average scores (minimum average score: 80) within the number of openings. ◦ Select up to two times the number of candidates than open positions for the waiting list.
Appointment (Research Fellow)	May,1 2025	<ul style="list-style-type: none"> ◦ If necessary, the appointment date can be adjusted. ※ However, the appointment offer may be withdrawn if the successful candidates cannot make it within August 1, 2025. ※ If the appointment is made earlier than the scheduled appointment date, the eligibility of the candidate will be determined as of the actual appointment date. ※ If the appointment is made later than the scheduled appointment date, the eligibility of the candidate will be determined as of the the scheduled appointment date.

※ The interview can be conducted in video interview according to the research group's circumstances.

※ The schedule above may be subject to change according to the research center's circumstances.

□ Required Documents

Category	Detail
Step 1 (Document screening)	<ol style="list-style-type: none"> 1. Curriculum vitae including a list of publications and preprints (PDF format) 2. Research statement 1 page (PDF format) 3. At least 1 recommendation letter <ul style="list-style-type: none"> ※ letters forwarded by an applicant will not be considered. 4. Consent to Collection and Use of Personal Information (attached) 5. Application for the institute for Basic Science (attached) 6. Supporting documents for persons with disabilities or eligible for veterans' benefit (if applicable) <p>※ The pertaining documents will only be used to confirm the pertaining qualification. Blind hiring process will be implemented.</p>
Step 2 (Interview screening)	<ul style="list-style-type: none"> ※ There can be additional required documents according to the situation at the center

Term of employment contract

- **(Research Fellow)** Employment is guaranteed until their Center closes after passing a review, which takes place before the end of the initial employment of 2 years (renewal every 2 years).

Qualifications and Preferences

[Required qualifications]

- Must be in compliance with the requirements for appointments as specified in Article 33 of the State Public Officials Act and IBS statutes.
- If candidates are found to be former public officials dismissed for corruption as set forth in Article 82 of the Act on the Prevention of Corruption and the Establishment of the Anti-corruption and Civil Rights Commission, the job offer will be withdrawn.
- Must have no restrictions traveling overseas. Male applicants must have completed or be exempted from compulsory military service.
- Must meet the requirements by the end of the application deadline.

[Preferred qualifications]

- Individuals with disabilities as defined in Articles 3 and 4 of the Enforcement Decree of the Act on the Employment Promotion and Vocational Rehabilitation of Persons with Disabilities, or individuals eligible for employment assistance as defined in Article 29 of the Act on the Honorable Treatment of and Support for Persons, Etc. of Distinguished Service to the State (additional points will be given during the screening/evaluation process)
 - 5 additional points for those who submit the certificate of disabilities
 - 5/10 additional points for those who submit the certificate of employment protection for the national war veteran
- Women in science, engineering and technology as defined in Article 2 of the Act on Fostering and Supporting Women Scientists and Technicians

Application Submission and Period

- How to apply: e-mail at kym@ibs.re.kr
 - * Recommendations letters forwarded by an applicant will not be considered
- E-mail Title for applicants: [2025-2 QCR – (Fellow) – YYY(name)]
- Open and closing dates: January 10, 2025 ~ January 31, 2025 (Until 18:00 KST)
- Please kindly note that if your application misses to submit a part of required documents including recommendation letters by the deadline, your application shall not be accepted.

Other Information

- The revised guidelines of the Ministry of Employment and Labor, and the Ministry of Economy and Finance (revision on 3 Nov. 2022, implementation on 1 Jan. 2023) have allowed a flexible application of the blind hiring policy to secure excellent researchers, thereby broadening the scope of information to be collected (e.g., academic background, schools, period spent on obtaining degrees, reference letters [including referees' information] and experience). However, personal information that can identify the applicant (e.g., gender and age) is still not collected.

- QCR, IBS is an Equal Opportunity or Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status. Any biased information will not be provided to committees at all.
- Applicants will be fully responsible for any consequences of making mistakes, missing information or not submitting required documentation in their applications. If any information is found to be incorrect or false, the job offer will be withdrawn.
- Submitted documents may be returned when a request is made within three months from the announcement of the final result in accordance with Article 4 of the Enforcement Decree of the Fair Hiring Procedure Act.
- If candidates are disqualified due to a background check or a physical examination result, the job offer will be withdrawn.
- If candidates are found to be former public officials dismissed for corruption as set forth in Article 82 of the Act on the Prevention of Corruption and the Establishment of the Anti-corruption and Civil Rights Commission, the job offer will be withdrawn.
- No applicants may be hired if there are no applicants deemed qualified during the screening process.
- If hired, the job category/grade and annual salary will be determined in accordance with IBS rules and regulations.
- Workplace: IBS Center for Quantum Conversion Research, GIST, Gwangju
- Inquiries: kym@ibs.re.kr