

2020-02 Recruitment Announcement for Non-tenure-track Research Fellow Positions at the IBS Center for Multidimensional Carbon Materials

Research Fellow (Non-tenure-track) Positions available at the IBS Center for Multidimensional Carbon Materials

The center for Multidimensional Carbon Materials is a Campus Center of the Institute for Basic Science (hereinafter, IBS). 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 Multidimensional Carbon Materials invites creative and dynamic candidates who will help us to achieve our goals.

Recruitment Details

Center (Workplace)	Work Category	Research Area	Required Qualifications	No. of Openings
IBS Center for Multidimensional Carbon Materials (UNIST, Ulsan)	Research Fellow (Non- tenure- track)	<ol style="list-style-type: none"> 1. Application of machine learning in material science. 2. The mechanisms of materials’ growth and etching. 3. The structural defects, mechanical, thermal, electronic properties of CNTs, graphene and 2D materials. 4. The computational study of surface science and chemical reactions in solution. 5. Experimental synthesis of various 2D materials, characterizations of 2D materials and exploration of their applications. 	<ul style="list-style-type: none"> – Degree: Doctoral degree – Major: Physics, Chemistry, Materials Science, Mechanical Engineering or other related majors – Preference: Applicants with experience in parallel coding and GPU acceleration are preferred; those who have experience on modeling CNT growth, 2D materials growth, electronic properties of 2D materials will be prioritized. <p>※ Subject to change, depending on the Center’s circumstances</p>	4

※ We seek candidates for a non-tenure-track¹⁾ position with a specialty in physics, chemistry, material science or other related fields including as related to making new carbon materials or related materials, and studying their physical and chemical properties. The candidate needs to be fluent in both oral and written English, and will work on projects aimed at detailed study of novel carbon and related materials. Familiarity with the basic aspects of carbon materials is valued. It is highly desirable that the candidate has working experience with (i) handling at least one programming language such as C, Fortran, python and so on in Linux environment, and familiarity with high performance computer (HPC) system (ii) studies of various phenomena at the surface or, of physical properties of various carbons forms and other related materials with computational methods such as Monte Carlo (MC), molecular dynamics (MD), ab-initio methods and so on (iii) applying machine learning (ML) methods to material science.

1) Non-tenure-track: not eligible for a tenure review, and thus employment ends with the expiration of the employment contract. Employment term is within maximum five years.

Qualifications and Preferences

[General Qualifications]

- Those who are qualified under the Article 33 of the “State Public Officials Act” and IBS regulations (Refer to the disqualifying factors listed in Article 33.)
- Those who completed mandatory military service or exempt from such service, and permitted to travel abroad

[Preferences]

- Additional points for persons with disabilities under Articles 3 and 4 of the Enforcement Decree of the Act on the Employment Promotion and Vocational Rehabilitation of Persons with Disabilities
- Additional points for persons eligible for employment assistance under Article 29 of the Act on the Honorable Treatment of and Support for Persons, Etc. of Distinguished Service to the State
- Female scientists and engineers
- Degrees and certificates in relevant areas
- Fluency in English language

Candidate Screening

Stage	Review	Criteria	Required Documents
Stage 1: Document Screening	Relevance to the recruitment area, expertise, excellence in research achievements, work capability, development potential, etc.	Select within three times of the number of candidates than opening positions for the next screening stage. Select applicants with the highest average scores (minimum average score: 80).	(Mandatory) - Application Form - CV and List of research achievements - Consent Form for Personal Information (Optional) - Supporting documents for persons with disabilities or eligible for veterans' benefits
Stage 2: Interview Screening	Expertise in the recruitment area, attitude, adaptability to organizational culture, presentation skills, problem solving skills, proficiency in English language, development potential, etc.	Select the final candidates with the highest average scores (minimum average score: 80) within the number of openings.	※ Separate notifications for applicants who pass each screening stage

 Application Submission and Period

- Application Submission: Via e-mail (jyoon@ibs.re.kr)
- Application Period: February 21st, 2020 – 18:00 (KST), March 6th, 2020

※ Information on application e-mail

- * Title: [Applying for non-tenure-track Research Fellow position at the IBS CMCM] NAME ← applicant's name
- * Content: I am applying for non-tenure-track Research Fellow position at the IBS Center for Multidimensional Carbon Materials.
- * Title of attachments: Application for non-tenure-track Research Fellow position at the IBS CMCM (NAME ← applicant's name)

Other Information

- Applicants take full responsibilities for any consequences resulting from omissions and errors found in submitted documents, not submitting required documents, etc. If any information is proven false, the job offer will be withdrawn.
- In the case when selected candidates are disqualified through a background check or a recruitment-related physical examination, the job offer will be withdrawn.
- In the case when selected candidates are found dismissed under 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.
- The submitted documents may be returned when a request of return is made within three months from the announcement of recruitment results under Article 4 of the Enforcement Decree of the Fair Hiring Procedure Act.
- No candidates may be hired if all candidates are found unsuitable during the screening stages.
- If hired, the work level, annual salary and etc. will comply with IBS standards.
- Expected appointment date is after April 16th, 2020.
 - ※ Appointment schedule is subject to change.
- Workplace: IBS Center for Multidimensional Carbon Materials (UNIST, Ulsan)
- Inquiries: Responsible staff of the Center for Multidimensional Carbon Materials (Tel.: 052-217-2358, e-mail: jyoona@ibs.re.kr)