

2021-01 Recruitment Announcement for Researcher Positions at the IBS Center for Multidimensional Carbon Materials

The 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 Multidimensional Carbon Materials invites creative and dynamic candidates who will help us to achieve our goals.

□ Recruitment Details

Work Position	Area No.	Area	Required Qualification	No. of Openings
Postdoctoral Research Associate	①	Electrochemistry	-Degree: Doctoral Degree (obtained within 5 years or to be obtained within 3 months from the appointment start date) -Major: Electrochemistry -Preference: Passionate about basic science and synthesizing new materials, solving reaction pathways such as through electrochemical syntheses, understanding atomic scale structure and overall structure of new materials, and chemical/physical properties of the material products. Ph.D.-level researcher who majored in electrochemical synthesis with strengths in materials synthesis. Researchers with deep experience in electrochemistry and synthesis of materials by using electrochemical methods. Expertise in all or many of: electrochemistry and electrochemical methods, XRD, SEM, perhaps TEM and various spectroscopies such as XPS, Raman, FTIR, etc. Interest and desire to explore new types of materials that are perhaps not a part of applicant’s prior experience but within the applicant’s abilities. Highly collaborative. Able to communicate in English.	1
Postdoctoral Research Associate	②	Physics	-Degree: Doctoral Degree (obtained within 5 years or to be obtained within 3 months from the appointment start date) -Major: Physics, Materials Science, Scanning Probe Microscopy (with a particular focus on AFM) and/or vacuum systems -Preference: Passionate about basic science and studying new materials, and exploiting opportunities at CMCM. Has significant experience in AFM and perhaps also other SPM methods to develop new synthesis/analysis methodology: Researchers with deep experience in the development of in-situ analysis methods using AFM and SPM. And/or having expertise in design/ building vacuum systems by yourself (building high vacuum chamber, high temperature vacuum furnaces or environmental chamber systems for in-situ analysis in conjunction with other analytical tools— candidates should explicitly state on CV or application). Has a strong desire to explore new types of materials and methods that are perhaps not a part of applicant’s prior experience but within the applicant’s abilities. Highly collaborative. Able to communicate in English.	1

Postdoctoral Research Associate	③	-Aberration-corrected TEM for Advanced Materials - <i>in situ</i> TEM -TEM analysis with Deep Learning	-Degree: Doctoral degree (obtained within 5 years or to be obtained within 3 months from the appointment start date) -Major: Physics, Chemistry, Materials Science, Mechanical Engineering, Chemical Engineering or other related majors -Preference: Experience in aberration-corrected TEM for 2D materials, nanomaterials, and carbon materials; experience in <i>in situ</i> TEM; experience in HRTEM, HRSTEM, EELS, EDS, DF imaging, diffraction, deep learning and simulation is highly desired.	3
Senior Researcher	④	-Aberration-corrected TEM for Advanced Materials - <i>in situ</i> TEM -TEM analysis with Deep Learning	-Degree: Doctoral degree -Major: Physics, Chemistry, Materials Science, Mechanical Engineering, Chemical Engineering or other related majors -Preference: Experience in aberration-corrected TEM for 2D materials, nanomaterials, and carbon materials; experience in <i>in situ</i> TEM; experience in HRTEM, HRSTEM, EELS, EDS, DF imaging, diffraction, deep learning and simulation is highly desired.	2

♦Senior Researcher: Research personnel with a doctoral degree, total appointment period available up to five years (e.g., 3+2 years), may be promoted to senior research fellow through a separate evaluation.

♦Postdoctoral Research Associate: A position to conduct research training and research for a certain period of time to deepen research expertise and abilities. Those who do not exceed 5 years after obtaining their doctoral degrees, or those who are expected to obtain their doctoral degree within 3 months by the time of appointment. Total appointment period available up to three years (e.g. 1+2 years)

※The employment contract will be maintained until the abolition of the Center, if the Center is determined to be abolished during the contract period.

□ Qualifications and Preferences

[General Qualifications]

- ♦ Those who have a required degree from domestic/overseas university
- ♦ Those who are qualified under Article 33 of the State Public Officials Act and IBS regulations
- ♦ Those who are permitted to travel aboard
- ♦ Those who completed mandatory military service or exempt from such service

[Preference]

- ♦ Additional points for persons with disabilities under Article 3 and 4 of the Enforcement Decree of the Act on the Employment Promotion and Vocational Rehabilitation of Persons with Disabilities, or 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.
- ♦ Those who are “women in science, engineering and technology” under Article 2 of the Act on Fostering and Supporting Women Scientists and Technicians.
- ♦ Fluency in English

□ Screening

Stage	Review Criteria	Method	Required Documents
Stage 1 (Document Screening)	Relevance to the recruitment area, expertise, work capability, development potential, etc.	Select three times the number of candidates than the opening for the next screening stage. Select applicants with the highest average scores (minimum average score: 80)	(1) CV (2) List of Publications (3) Research Plan (free form, within 1 page) (4) Consent form for providing personal information (form attached) ※All needs to be written in English (5) Supporting documents for persons with disabilities or eligible for veterans' benefit, if necessary
Stage 2 (Interview Screening)	Expertise in the recruitment area, presentation skills, attitude, development potential, etc.	Select the final candidates with the highest average scores within the number of openings. (minimum average score: 80)	Be individually informed for applicants who pass document screening

□ Application Submission and Period

♦ Submission via E-mail to inelee@ibs.re.kr

-Please state [**“Area No.” Application**] [**“Your Name”**] on the application e-mail title.

e.g.) if you are applying for the researcher position of electrochemistry: [① Application] Peter Parker

♦ **Period: 2020.12.07 (Mon) ~ 18:00, 2020.12.22 (Tues, KST)**

※Please kindly note that **submitting your application to only one recruitment area** is doable, if submitted to multiple areas, the first application delivered will only be considered as an application. Please make sure that you state the **Area Number** that you wish to apply and provide the **consent form** for providing personal information.

□ Other Information

♦ Applicants take full responsibility 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.

♦ If selected candidates are disqualified through a background check or a recruitment-related physical examination, the job offer will be withdrawn.

♦ If selected candidates are found dismissed according to the Article 82 of the Act on the Prevention of Corruption and the Establishment and Management of the Anti-Corruption and Civil Rights Commission, the appointment will be withdrawn.

♦ Submitted documents may be returned when such requests are made within three months from the announcement of recruitment results according to the 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, etc. will comply with IBS standards.

♦ Expected date of appointment is/or after March, 2021. (※Subject to change)

♦ Workplace: IBS Center for Multidimensional Carbon Materials, Ulsan

♦ Inquiries: Responsible staff at the IBS Center for Multidimensional Carbon Materials

(Tel.: 052-217-5756; fax: 052-217-5759; e-mail: inelee@ibs.re.kr)