

## 2020-03 Recruitment Announcement for Research Positions at the IBS Center for Multidimensional Carbon Materials

### Research Fellow (Non-tenure track) Position 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

Center (Workplace)	Work Category	Area	Required Qualifications	No. of Openings
Center for Multidimensional Carbon Materials (UNIST, Ulsan)	Research Fellow (Non-tenure track)	- Synthetic Organic Chemistry, Macromolecular Chemistry, Physical Organic Chemistry	- Degree: Doctoral Degree - Major: Chemical Synthesis - Preference: Experience in the synthesis of organic and polymeric materials (1) Please refer to the below for the detailed required qualifications	2
		- In Situ Transmission Electron Microscopy	- Degree: Doctoral Degree - Major: Materials Science and Engineering and related fields - Preference: Experience in in situ TEM, chemical synthesis of nanomaterials; previous doctoral experience for synthesis, TEM/STEM, characterization, and simulation is highly desired (2) Please refer to the below for the detailed required qualifications	3

(1) We seek candidates to tackle outstanding synthetic challenges at the intersection of organic and polymer chemistry. The positions will entail the preparation of novel polymeric materials and related small molecules that are designed to facilitate the realization of new classes of carbon-based materials. The candidate should have deep experience with: (1) a broad range of synthetic methodologies, (2) multi-step syntheses; (3) Schlenk and other air-free techniques, (3) synthetic polymer chemistry, (4) photochemistry, and (5) relevant contemporary characterization and separation techniques including NMR spectroscopy, FT-IR spectroscopy, UV-Vis spectroscopy, thermal analyses, gel permeation chromatography, and mass spectrometry. Ideal candidates will also (1) be fluent in English, (2) have multiple years of experience working on projects rooted in synthetic organic and synthetic polymer chemistry, (3) exhibit a strong motivation solve long-standing challenges that are related to the preparation of novel carbons from polymeric precursors, (4) be expected to mentor junior team members, and (5) be listed as a co-author on multiple papers that have been published in top tier, peer-reviewed journals.

(2) We seek candidates for a non-tenure track position that tackles outstanding challenges at the in situ transmission electron microscopy and low-dimensional materials science. The position will entail the in situ synthesis, characterization and application of novel low-dimensional materials and related carbon materials. As such, the

candidate should have deep experience with: (1) chemical synthesis of nanomaterials including 0D, 1D and 2D, (2) manipulation of low-dimensional materials, (3) in situ SEM/TEM experiments including gas cell, liquid cell, and mechanical testing. (4) HRTEM/HRSTEM imaging, EELS and EDS, diffraction and TEM/STEM image simulation. Ideal candidates will (1) be fluent in English, (2) have multiple years of experience working, (3) have experience working in publication, (4) exhibit a strong motivation to work on projects rooted in the characterization of new 2D materials and novel carbon materials with TEM, and (5) be expected to mentor junior team members.

▶ Non-tenure track: Not eligible for a tenure review, employment ends with the expiration of the employment contract. Employment term is under maximum five years.

## □ Qualifications

### [General Qualifications]

- Those who are qualified under the “State Public Officials Act” (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 5 points for those who submit supporting documents proving they are persons with disabilities or eligibility for patriot & veteran benefits under relevant laws and decrees at the document screening stage
- Female scientists and engineers
- Degrees and certificates in relevant areas
- Fluency in foreign languages

## □ Candidate Screening

Candidate Screening Method		Review Criteria	Required Documents
Combined	Document Screening	<ul style="list-style-type: none"> <li>– Relevancy to the recruitment area</li> <li>– Excellence of research achievements</li> <li>– Full transcripts of university and higher education</li> <li>– Development potential</li> </ul>	<ul style="list-style-type: none"> <li>– Application form</li> <li>– CV and list of research achievements</li> <li>– Graduation certificate of your highest academic degree or diploma</li> </ul>
	Interview	<ul style="list-style-type: none"> <li>– Expertise in the recruitment area</li> <li>– Attitudes and adaptability to organizational culture</li> <li>– Presentation skills and diligence</li> <li>– Development potential</li> </ul>	<ul style="list-style-type: none"> <li>– Full transcripts of the completed curricula equivalent to college or higher</li> <li>– Consent form</li> </ul>

▶ Candidates who receive a minimum average point of 80 points or more at the document

screening stage will be considered for the interview screening stages. The final candidate shall be selected based on the highest average point of 80 points or more at the interview stage, the number of final candidates will not exceed the number of opening. (*The average point will be drawn from all review panel members.*)

□ **Application Submission and Period**

- Application Submission: Submit required documents stated above via e-mail ([inelee@ibs.re.kr](mailto:inelee@ibs.re.kr))
- Period: March 5 (Thurs), 2020 - 23:00 (KST) March 19 (Thurs), 2020
- Please specify which area you are applying to, on the application form.

□ **Additional 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 May 1, 2020. (This may 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](mailto:inelee@ibs.re.kr))