

# Job Description

<b>Workplace</b>	Center for Artificial Low Dimensional Electronic Systems (Pohang, POSTECH)	<b>Job category (level)</b>	Postdoctoral research associate	<b>Area of hiring</b>	Research
<b>Work duties</b>	o Research on 1D/2D materials with ARPES				
<b>Main business of IBS</b>	<p>o Founded under the Special Act on Establishment of and Support for International Science and Business Belt, the Institute for Basic Science (IBS) conducts fundamental research in the fields of basic science, contributing to developing and delivering scientific knowledge and innovative technology, as well as nurturing the next generation of scientists.</p> <ul style="list-style-type: none"> <li>- Basic science research</li> <li>- Interdisciplinary basic science research in science and technology</li> <li>- Convergence between basic science and humanities, social science and culture and arts</li> <li>- Policy research for setting the direction of basic science research</li> <li>- Programs for establishing and utilizing research facilities and equipment</li> <li>- Management, transfer, utilization and commercialization of research outcomes</li> </ul>				
<b>Research area of the Center</b>	o Discovery of novel electronic, magnetic, and topological properties of low dimensional quantum materials				
<b>Duties and responsibilities</b>	o ARPES experiments and data analysis for 1D/2D quantum materials				
<b>Knowledge required</b>	o Condensed matter physics and ARPES working knowledge				
<b>Competencies required</b>	<ul style="list-style-type: none"> <li>o ARPES measurements and data analysis</li> <li>o UHV technology</li> <li>o Low temperature apparatus</li> </ul>				
<b>Attitude required</b>	<ul style="list-style-type: none"> <li>o Communication skill</li> <li>o Creative and collaborative attitude for physics research</li> </ul>				
<b>Basic Job Skills</b>	o Communication Skills, Numerical Skills, Problem-Solving Skills, Interpersonal Skills, Information Literacy, Organizational Understanding, Professional Ethics				
<b>Qualification</b>	<ul style="list-style-type: none"> <li>o Degree: Ph.D. degree in the related field such as condensed matter physics (obtained within recent 5 years or to be obtained within 3 months from the expected start date(April 16, 2025))</li> <li>o Preference: Experience in ARPES research preferred</li> </ul>				
<b>Screening</b>	o Stage 1: Document screening → Stage 2: Interview				

※ This job description states the major work duties of the hiring area. Work duties that are not stated here may need to be performed.