

# Job Description

Workplace	Center for Geometry and Physics (POHANG, POSTECH)	Job category (level)	Senior Researcher	Area of hiring	Research
Work duties	o Symplectic topology, mirror symmetry, geometric topology, dynamical systems, algebraic geometry, and mathematical aspects of quantum field and string theory				
Main business of IBS	<ul style="list-style-type: none"> <li>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.</li> <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>				
Research area of the Center	o Synergetic research on mathematics and theoretical physics through geometry, topology and mathematical physics.				
Duties and responsibilities	o Conduct synergetic research in mathematics, theoretical physics, etc. related to the research themes of the research center				
Knowledge required	o Relevant knowledge in mathematics, physics, etc. (Ph.D degree)				
Competencies required	o Skills in paper writing, Problem-solving ability, Effective communication skills, English communication skills for smooth communication with foreign research personnel				
Attitude required	<ul style="list-style-type: none"> <li>o Various communication skills for collaboration</li> <li>o Creative work attitude in mathematical/physical research</li> </ul>				
Basic Job Skills	o Communication Skills, Numerical Skills, Problem-Solving Skills, Interpersonal Skills, Information Literacy, Organizational Understanding, Professional Ethics				
Qualification	<ul style="list-style-type: none"> <li>o Required Qualifications: Ph.D. degree in the related field such as geometry, topology and mathematical physics (obtained before appointment start date)</li> <li>o Preference: Experience in related fields such as symplectic geometry and probabilistic statistical mechanics</li> </ul>				
Screening	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.