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| **Job Description** |

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| **Workplace** | Center for Theoretical Physics of Complex Systems  (Daejeon, HQ) | **Job category**  **(level)** | Senior Researcher | **Area of hiring** | Theoretical Physics of Complex Systems |
| **Work duties** | Research on theoretical physics of complex systems | | | | |
| **Main business of IBS** | 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. | | | | |
| **Research area of the Center** | Condensed matter physics, topological and correlated quantum matter, quantum chaos in many-body systems, mesoscopics, and physics of light | | | | |
| **Duties and responsibilities** | Research on theoretical physics of complex systems | | | | |
| **Knowledge required** | Knowledge of theoretical physics (Doctoral degree) | | | | |
| **Competencies required** | Research paper and report writing skills, Communication and presentation skills, Problem solving ability, Fluency in English | | | | |
| **Attitude required** | o Communication through cooperation  o Creative work attitude for research in various fields of physics | | | | |
| **Basic skills required** | Communication, Mathematics, Problem solving, Interpersonal relationship, Information processing, Understanding of the organization, Work ethics | | | | |
| **Qualification** | * Degree: Doctoral degree * Major: Physics   - Preferences: Research experience in quantum matter and quantum optics in particular but not exclusively with focus on quantum many-body interactions, FQHE, graphene, entanglement and topology are welcome among others. | | | | |
| **Screening** | Stage 1: Document screening 🡪 Stage 2: Interview | | | | |

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