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| GIST AI대학원 김선동 교수 연구실 연구직(Post-Doc) 채용 직무기술서 (Job Description for Postdoctoral Researcher at Sundong Kim Lab, GIST AI) |

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| 구분 | 직종 | 연구직 | 채용분야 | 연구개발 |
| NCS  분류체계 | 20.정보통신 | 01.정보기술 | 07.인공지능 | 03.인공지능모델링 |
| 기관  주요사업 | ○ 고급 과학 기술 인재 양성  ○ 산업계 및 외국과의 협동 연구 수행 및 연구 교류 촉진  ○ 국가 과학기술 및 지역 균형발전에 이바지 | | | |
| Summary | We are hiring a postdoctoral researcher working on Abstraction and Reasoning project by advancing our recent work “Playgrounds for Abstraction and Reasoning” (<https://lnkd.in/gC8RervK>). Our group has around 10 undergraduate/MS-PhD members in this domain, and the project is attracting researchers from abroad so you can make use of this chance to lead the project and increase your visibility. You will define and lead some research directions and supervise students working on the same project. GIST AI grad school has HPC with ample A100 GPUs. This position is 100% research-oriented. | | | |
| Responsibilities & Attitudes | As a postdoctoral researcher in GIST AI, you will develop your research career as a leader of a research team evolving at a rapid pace. We are looking for active learners who can collaborate across a diverse and global team and are comfortable dealing with ambiguity.  - Self-motivated individuals who enjoy challenges to explore the unsolved problem.  - Innovative thinker who should be able to take initiative but can also follow a research plan and work as part of a multi-disciplinary team  - A sincere attitude towards work and an attitude of taking responsibility and completing assigned tasks  - Sharing your technical and communication skills to junior talents | | | |
| Renumeration | The current position is a non-tenure track. The appointment is initially for one year. The contract can be extended by another year based on the evaluation of excellence. The starting date will be March 2023 and the starting salary is competitive, which is KRW 60 Million. GIST has a beautiful campus, and the city center is pretty close. | | | |
| Qualifications | Required Qualifications  - Must have a Ph.D degree from an accredited university in a relevant discipline, such as computer science, neuroscience, applied mathmatics, AI, or closely related disciplines.  - Candidates should be Ph.D degree holders by the appointment date.  - Experience in self-directed research in machine learning  - Hands-on experience in implementing and evaluating machine learning approaches and systems. Experience with Python and deep learning frameworks (PyTorch or TensorFlow) is advantageous.  Preferred Qualifications  - Strong understanding of state-of-the-art deep learning approaches for representation learning and reinforcement learning, ideally applied to the domain of abstraction and reasoning.  - Highly effective written and verbal communication skills, fluent in English.  - A research program demonstrated by publications in relevant top-tier publication venues in the candidates field (e.g., conferences such as NeurIPS, ICML, ICLR, KDD, WWW, ICDM, SIGIR, CVPR, ICCV, ECCV, ACL, EMNLP, NAACL, WWW or journals such as TKDE, TPAMI, etc). | | | |
| References | * PI’s website: <https://sundong.kim>   - Our paper: “Playgrounds for Abstraction and Reasoning” <https://openreview.net/forum?id=F4RNpByoqP> (NeurIPSW’22)  - On the measure of intelligence (Written by Francois Chollet)<https://arxiv.org/abs/1911.01547>  - Fast and flexible: Human program induction in abstract reasoning tasks <https://arc-visualizations.github.io/> - Language-complete Abstraction and Reasoning Corpus (LARC)  <https://samacquaviva.com/LARC/>  - Neural-guided, Bidirectional Program Search for Abstraction and Reasoning <https://arxiv.org/pdf/2110.11536.pdf> | | | |