جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

Center	**SDAIA-KFUPM Joint Research Center for Artificial Intelligence (JRC-AI)**
Job Title	**Post-Doctoral Fellow**
Job Description	The SDAIA-KFUPM Joint Research Center for Artificial Intelligence (JRC-AI) is seeking exceptional Postdoctoral Researchers to join its interdisciplinary research team. JRC-AI is committed to advancing the frontiers of Artificial Intelligence (AI) through both fundamental and applied research that addresses real-world challenges. We are looking for highly motivated candidates holding a Ph.D. in Computer Science, Computer Engineering, Electrical Engineering, or a closely related fields, with a strong research background in one or more of the following areas: • Machine Learning and Deep Learning • Natural Language Processing and Large Language Models • Computer Vision • Generative AI • Multimodal Learning • Speech and Signal Processing • Reinforcement Learning • Robotics • Human-Machine Interaction • Optimization This opportunity provides access to state-of-the-art research facilities, a collaborative and intellectually rich environment, and the chance to contribute to high-impact projects of national and global significance. Postdoctoral fellows are expected to conduct and publish high-quality research, collaborate across disciplines and other research centers in KFUPM, and contribute to the center's strategic vision while building a strong international research profile.
Job Responsibility	○ Conduct cutting-edge research in areas related to AI, machine learning, deep learning, natural language processing, computer vision and optimization. ○ Design, develop, and evaluate novel algorithms or systems to address complex challenges in AI/ML, ensuring scalability, robustness, and practical applicability. ○ Collaborate with cross-functional teams and centers at KFUPM and domain experts to define research problems, interpret findings, and translate insights into deployable solutions. ○ Prepare high-quality manuscripts for publication in top-tier journals and conferences, and contribute to the dissemination of research outcomes through presentations and technical reports. ○ Mentor undergraduate students in research activities, project development, and scientific communication. ○ Contribute to the preparation of research proposals, grants, and funding applications to support ongoing and future projects. ○ Maintain and document reproducible codebases and experiment pipelines using programming languages such as Python, MATLAB, or C/C++, along with libraries like TensorFlow, PyTorch, or other scientific computing frameworks. ○ Ensure ethical and responsible research practices, particularly in handling sensitive data and in the development of AI systems impacting human users. ○ Engage with the broader academic and professional community through seminars, workshops, conferences, and potential industry collaborations.

Qualification	○ A Ph.D. in Computer Science, Computer Engineering, Software Engineering, Electrical Engineering, Information Systems, Information Technology, Biomedical Engineering, Bioinformatics, or a closely related field. ○ A strong record of scholarly achievements, including first-authored publications in peer-reviewed flagship conferences or ISI-indexed journals. ○ Demonstrated research and engineering experience through competitive grants, fellowships, patents, internships, industry experience, or coding competitions. ○ Proven ability to analyze complex problems, evaluate alternative solutions and trade-offs, and integrate diverse perspectives to reach effective decisions. ○ Experience in effectively communicating research findings to both expert and non-expert audiences. ○ Ability to collaborate and communicate across disciplines within team-based environments. ○ Proficiency in programming languages such as Python, MATLAB, C/C++, or C#, and familiarity with scientific computing and deep learning libraries. ○ Excellent oral and written communication skills in English, with a strong ability to present technical content clearly and effectively. ○ Experience working on deployable, scalable AI/ML systems is highly desirable. ○ Passing the technical interview by presenting some research work performed in the field of AI and answering the questions of the interviewing committee.