AlfaisalX

Alfaisal Center for Robotics and Autonomous Agents

Postdoctoral Researcher
Artificial Intelligence

🏢 AI Research Lab | 📍 Riyadh, Saudi Arabia

🎓 Postdoctoral Fellowship

About AlfaisalX

AlfaisalX (Alfaisal Center for Robotics and Autonomous Agents) is a newly established **Center of Excellence** at Alfaisal University, dedicated to advancing the frontiers of cognitive robotics, autonomous systems, and artificial intelligence. Our mission is to drive innovation, develop cutting-edge technologies, and cultivate the next generation of AI and robotics leaders in alignment with **Saudi Vision 2030**.

Alfaisal University is one of the leading private research universities in the Middle East, located in the heart of Riyadh. The university is renowned for its strong research culture, world-class faculty, and close ties with industry. The **College of Engineering** provides an exceptional research environment with state-of-the-art computing infrastructure, including high-performance GPU clusters for deep learning research.

Our Research Focus Areas:

- Agentic AI & Large Language Models for Business Automation
- Arabic NLP & Multimodal Foundation Models
- Computer Vision & Medical Image Analysis
- Reinforcement Learning for Robotics & Decision Making
- AI for Healthcare & Clinical Decision Support

Industry Partners: HUMAIN (leading AI company), Bako Motors, Tawuniya Insurance, PSDSARC

About the Position

We are seeking a talented and ambitious **Postdoctoral Researcher in Artificial Intelligence** to join our dynamic research team at AlfaisalX. This is a unique opportunity to be at the forefront of AI research in one of the world's fastest-growing technology ecosystems.

The ideal candidate will have a **fresh Ph.D.** with a strong publication record, demonstrated research excellence, and expertise in one or more of the following areas: **Agentic AI**, **Large**

Language Models (LLMs), **Computer Vision**, **Natural Language Processing**, and **Reinforcement Learning**.

As a Postdoctoral Researcher, you will lead innovative research initiatives that push the boundaries of what AI can achieve. You will have the opportunity to work on high-impact projects including developing Arabic-centric LLMs, applying AI to healthcare challenges, building autonomous agent systems for enterprise automation, and advancing the state-of-the-art in computer vision and robotics.

You will collaborate with an interdisciplinary team of researchers and have access to substantial computing resources, including dedicated GPU clusters with the latest NVIDIA hardware. Our industry partnerships with companies like HUMAIN and Tawuniya provide unique opportunities for applied research with real-world impact.

We offer a highly competitive salary (tax-free in Saudi Arabia), generous research funding, full support for international conference travel, and a **clear pathway to a faculty position** for exceptional candidates who demonstrate research leadership and impact.

Research Focus Areas

🧠 Agentic AI   💬 LLMs/NLP   👁 Computer Vision   💗 AI for Healthcare   🎮 RL

Key Responsibilities

🤖 Lead research initiatives in Agentic AI and LLM applications

👁 Develop novel computer vision and NLP algorithms

🏥 Apply AI solutions to healthcare and medical applications

🧠 Design and implement reinforcement learning systems

🏆 Publish in top AI/ML venues (**NeurIPS, ICML, CVPR, ACL, EMNLP**)

👤 Supervise graduate students and research projects

🤝 Collaborate with industry partners on applied AI research

🤲 Contribute to grant proposals and funding applications

Required Qualifications

- **Fresh Ph.D. in Computer Science, AI, Machine Learning**, or related field

- **Strong publication record** in top-tier AI venues (NeurIPS, ICML, ICLR, CVPR, ACL)

- Expertise in LLMs, transformers, and foundation models

- Strong background in computer vision, NLP, or reinforcement learning

- Proficiency in **PyTorch, TensorFlow**, or JAX

- Experience with large-scale distributed training

- Excellent research, writing, and communication skills

Preferred Qualifications

- Experience with Agentic AI systems and multi-agent frameworks

- Background in AI for healthcare or medical imaging applications

- Knowledge of Arabic NLP or multilingual models

- Experience with production ML systems and MLOps

- Open-source contributions to major AI projects

- Track record of industry collaboration

What We Offer

◆ **Highly competitive salary** (tax-free in Saudi Arabia)

⛃ Generous research funding and equipment budget

▤ State-of-the-art **GPU computing infrastructure**

✈ International conference travel fully supported

👥 Collaborative interdisciplinary environment

★ **Clear pathway to faculty position**

⌂ Housing allowance and relocation support

How to Apply

Interested candidates should submit the following documents to **alfaisalx@alfaisal.edu**:

1. Updated CV with complete publication list and Google Scholar link

2. Research statement (2-3 pages) outlining past work and future research agenda

3. Cover letter explaining your fit for the position and interest in AlfaisalX

4. Three representative publications (preferably first-author)

5. Contact information for 3 academic references

Apply Now

✉ alfaisalx@alfaisal.edu

Subject: Application – Postdoc in Artificial Intelligence

AlfaisalX is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

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