

AlfaisalX

Alfaisal Center for Robotics and Autonomous Agents

Research Assistant AI & Robotics

 AlfaisalX Research Center |  Riyadh, Saudi Arabia

 Full-Time Research Position

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 Riyadh, the capital of Saudi Arabia. Founded in 2002, the university has rapidly established itself as a hub for academic excellence and research innovation. The **College of Engineering** offers a vibrant research environment with modern laboratories, industry partnerships, and a diverse community of researchers from around the world.

Our Research Focus Areas:

- Agentic AI & Large Language Models for Business Automation
- Robotics, UAVs & Autonomous Ground/Aerial Systems
- Medical & Health Robotics (Surgery, Rehabilitation, Medical Imaging)
- Cloud Robotics & Multi-Robot Systems

Why Saudi Arabia? Tax-free income, modern infrastructure, rich culture, and a rapidly growing tech ecosystem.

About the Position

AlfaisalX is looking for a motivated and talented **Research Assistant** to support our AI and Robotics research programs. This position is ideal for recent Master's degree holders who wish to gain hands-on research experience and contribute to innovative projects at the intersection of artificial intelligence and robotics.

As a Research Assistant, you will work closely with senior researchers, postdoctoral fellows, and faculty members on cutting-edge projects. You will have the opportunity to develop your

technical skills, contribute to academic publications, and build a strong foundation for a future career in research.

This role offers an excellent **pathway to Ph.D. studies** for high-performing candidates. You will receive mentorship from experienced researchers, access to state-of-the-art facilities, and exposure to a wide range of research topics including machine learning, computer vision, natural language processing, and robotic systems.

You will be part of a collaborative, international research team working on projects that have real-world impact. Our industry partnerships with companies like HUMAIN, Bako Motors, and Tawuniya provide opportunities to work on applied research problems and see your work deployed in practice.

Ideal for Early-Career Researchers

This role offers mentorship, hands-on experience with cutting-edge technologies, exposure to top-tier research, and a potential pathway to Ph.D. studies at leading universities worldwide.

Key Responsibilities

-  Support research projects in AI and robotics
-  Implement and test machine learning algorithms
-  Assist with robotic system development and testing
-  Collect, process, and annotate datasets for research
-  Maintain research equipment and software systems
-  Contribute to paper writing, documentation, and presentations
-  Participate in lab meetings, seminars, and research discussions
-  Stay current with latest research developments

Required Qualifications

- **Master's degree** in Computer Science, AI, Robotics, Electrical Engineering, or related field
- Strong programming skills in **Python and/or C++**
- Basic knowledge of machine learning and deep learning concepts
- Familiarity with ROS or other robotic frameworks
- Good analytical and problem-solving abilities
- Excellent teamwork and communication skills

- Self-motivated with a strong desire to learn

Preferred Qualifications

- Experience with computer vision or NLP projects
- Background in reinforcement learning
- Publications or research experience during Master's studies
- Experience with Linux and command-line tools
- Knowledge of Docker, Git, and modern development practices
- Experience with deep learning frameworks (PyTorch, TensorFlow)

What You'll Gain

-  **Mentorship** from senior researchers and world-class faculty
-  Hands-on experience with cutting-edge research technologies
-  Access to state-of-the-art laboratories and equipment
-  Skills development in AI, robotics, and research methodology
-  Opportunity to co-author academic publications
-  **Potential pathway to Ph.D. studies**
-  International research network and collaborations

What We Offer

-  Competitive research assistant salary (tax-free)
-  Mentorship from senior researchers
-  Access to cutting-edge research facilities
-  Professional development opportunities
-  Pathway to Ph.D. studies for high performers
-  Health insurance coverage

How to Apply

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

1. Updated CV/Resume highlighting relevant experience and skills
2. Cover letter explaining your interest and career goals
3. Academic transcripts (Master's degree)
4. Links to relevant projects, GitHub repositories, or publications
5. Contact information for 2 academic or professional references

Apply Now

 alfaisalx@alfaisal.edu

Subject: Application – Research Assistant in AI & Robotics

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

 alfaisalx.alfaisal.edu |  Alfaisal University, Riyadh, KSA