

**Masdar Institute's Interactive Artificial Intelligence Laboratory (MII-AI)**  
**Computing and Information Science Program**  
**Masdar Institute of Science and Technology**

The MII-AI Lab in the Computing and Information Science Program at the Masdar Institute of Science and Technology is looking for a postdoc with expertise at the intersection of artificial intelligence and human-robot interaction. The Masdar Institute of Science and Technology is a new US-style, graduate research institution being established in Abu Dhabi, UAE in partnership with MIT. The Institute is graduating its first class of MSc students this summer, and will begin a PhD program in the Fall. The Institute's goal is to become a world-class research institute at the graduate level focused on advanced energy and sustainable technologies. For more information about Masdar Institute, please see [www.masdar.ac.ae](http://www.masdar.ac.ae).

In this project, we are concerned with developing AI and human-robot interaction technologies that allow a user to effectively interact with a remote humanoid robot to perform a challenging task in a dynamic and complex environment. We are particularly interested in developing capabilities that allow everyday end-users to imbue robots with intelligent, highly customized, skills that the user can utilize in real-time operations. Application areas include exploration of hydrothermal vents in the ocean floor, maintenance of deep-water oil wells, power plant maintenance, space exploration, search and rescue, and other remote sensing activities.

Applicants with experience or demonstrated ability in some or all of the following research areas will have an advantage: machine learning, learning from demonstrations, human-robot interaction, human-robot interfaces, computer vision/image processing, data fusion/sensor fusion, probabilistic models, supervisory control, and other areas of artificial intelligence. Strong programming skills are also important.

The successful applicant should demonstrate the capability and desire to develop their own research project (within the topic) that meets their own strengths and interests. Applicants should send a CV and a 1-2 page research statement to Jacob Crandall ([jcrandall@masdar.ac.ae](mailto:jcrandall@masdar.ac.ae)). The research statement should describe the applicant's **background** and **interests** *as they relate to this research project*.

Compensation for postdoctoral associates at Masdar Institute is very competitive, with salaries typically upwards of \$68,000 (USD) per year, plus full health insurance benefits.