

JOB OPPORTUNITIES

Lab for Medical Assistant Robotics and Cognitive Haptics (MARCH) Korea Institute of Science and Technology (KIST)

We are inviting researchers in the following positions. The research background includes but not limited to: robotics, mechatronics, mechanical engineering, computer science, electrical engineering, neuroscience or related field. Please do not hesitate to contact us if you have any questions. We think passion and self-motivation and sharing our vision are the most important factors to work with. We are also ready to make a right position for you even though you would not fit to the opening positions perfectly.

Requirements for Post-Doc positions

1. High quality journal publications or potential to publish the research results at top-ranked journal papers.
2. Strong English communication skills: documentation and presentation.
3. Strong skills in experimental design and technical abilities.
4. Strong analytical abilities of visualizing, articulating, and solving complex problems.
5. Self-motivated and ability to work independently and lead projects with team members.

Requirements for researcher

1. Master degree or at least 2 year experience after a bachelor degree
2. Good programming skills (C++, MATLAB)

Position Description

1. Postdoc, Robotics Controls Engineer
 - A. Solid knowledge of robotics including kinematics, dynamics, and control theoretically and practically.
 - B. Interest in bio-medical robotic applications including surgical robotics or rehabilitation robotics.
 - C. Proven record of novel robot designs, control algorithms, system integration.
2. Postdoc, Mechanical Design Engineer (mechanism & instruments)
 - A. Solid knowledge of mechanism design, design synthesis & analysis, kinematics
 - B. Interest in bio-medical robotics applications including haptic device, human-machine interface, rehabilitation robotics, bionic interface, medical instruments, surgical robotics.
 - C. Proven record of novel mechanical design.
 - D. Familiar with CAD software, machining, system integration.
3. Postdoc, Bionic Interface Engineer
 - A. Solid knowledge of EMG, EEG, and other bionic signals

- B. Interest in decoding of human motion intention and human anatomy.
 - C. Strong background of signal processing and programming skills.
 - D. Proven record of human subject experiments with IRB.
4. Mechanical Engineer
- A. Experience of CAD software.
 - B. Experience of robotic system integration including servo-motor control.
 - C. Familiar with machining and drawings.
 - D. Be excited with design of robot mechanism.
5. Electrical Engineer
- A. Experience of circuit design, electronics, programming, wireless communication.
 - B. Good software programming skill, C++, MATLAB, and mobile devices.
 - C. Be excited with robot control
6. Lab Coordinator
- A. Strong communication skills.
 - B. Strong documentation and presentation skills.
 - C. Be excited with subject recruitment and meeting arrangement.
 - D. Be excited with web documentation, taking pictures, editing movie clips.