

1. What is the free-flying robot that will be programmed for KIBO-RPC?

In this challenge, you will be developing codes to program Astrobee, NASA's free-flying robotic system on the International Space Station. The Astrobee system runs primarily on Java and consists of three cubed-shaped robots, software and a docking station used for recharging. Astrobee uses electric fans as a propulsion system, allowing them to fly freely through the microgravity environment of the station.

2. What are the specs recommendation for the competition?

8GB RAM is required to install the Astrobee simulator on your computer (16GB RAM recommended) You will also need to install Android Studio on your computer to run the programs.

3. Can we use native codes complied by languages other than Java for KIBO-RPC?

No, you must develop your program with Java only. Astrobee's guest user program is designed as Java application which work on Android device. There might be inconsistency when installed in Astrobee if you mix the languages.

4. Can I join KIBO-RPC if I don't have programming background?

While it is good to have some basic knowledge in Android programming and image processing in Java, beginners to coding can still sign up. If you require guidance sessions from JAXA, or need more help in coding, do let us know and we will provide you assistance!

5. Can we change our teammates for KIBO-RPC?

Before the preliminary round, you are allowed to change your team members.

6. What if I do not have enough teammates for KIBO-RPC?

If you are based in Singapore, or a Singaporean, please drop Rohini (rohini.parthasarathy@spacefaculty.asia) an email and we will get back to you shortly.

7. Who can I contact for KIBO-RPC for questions??

If you are based in Singapore, or a Singaporean, please drop Rohini (rohini.parthasarathy@spacefaculty.asia) an email and we will get back to you shortly.