

Quick Start Guide: QLabs Virtual QArm

STEP 1 Software Prerequisites

The QLabs Virtual QArm is compatible with **Windows 10 (64-bit)** and requires **MATLAB 2019a** or later.

STEP 2 Register on Quanser Academic Portal

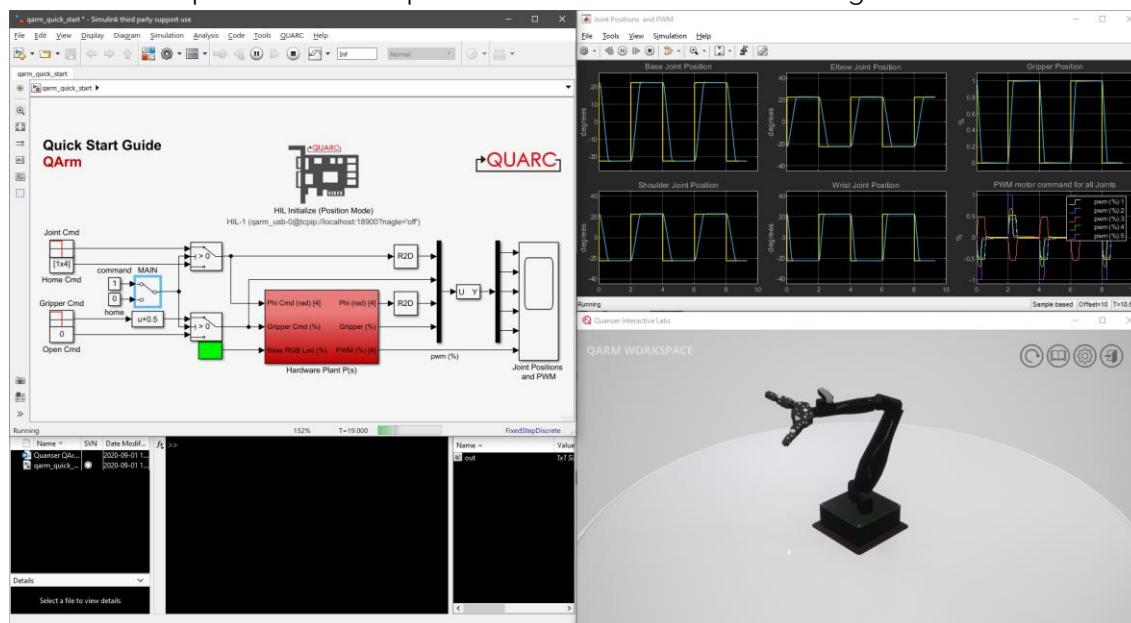
Visit the Quanser Academic Portal at <https://portal.quanser.com/>. Follow the on-screen instructions to register and activate your account.

STEP 3 Download and Install QLabs

From the Quanser Academic Portal, download and install the latest version of the **Quanser Interactive Labs** (QLabs) application.

STEP 4 Testing the Virtual QArm

1. Open the **Quanser Interactive Labs** application and login using your account.
2. From the product list select **QArm**.
3. Select **QArm Workspace**. You should see a Virtual QArm as shown below.
4. Open the Simulink model **qarm_quick_start.slx** and set the switch labelled **MAIN** to the home position.
5. Open the scope labeled **Joint Positions and PWM** and run the Simulink model.
6. Double click the **MAIN** switch to set it to the command position. The QArm will sequentially move back and forth between two positions. The responses should look like the following.



7. Set the **MAIN** switch back to the home position. When the QArm reaches stops moving, stop the model

STEP 5 Download Curriculum

To download the full student version of the QLabs QArm curriculum click on the *Open Content* icon in the app.

Still Need Help?

For further assistance from a Quanser engineer, contact us at tech@quanser.com