

Quick Start Guide: QLABs Virtual AERO

STEP 1 Software Prerequisites

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

STEP 2 Register on Quanser Academic Portal

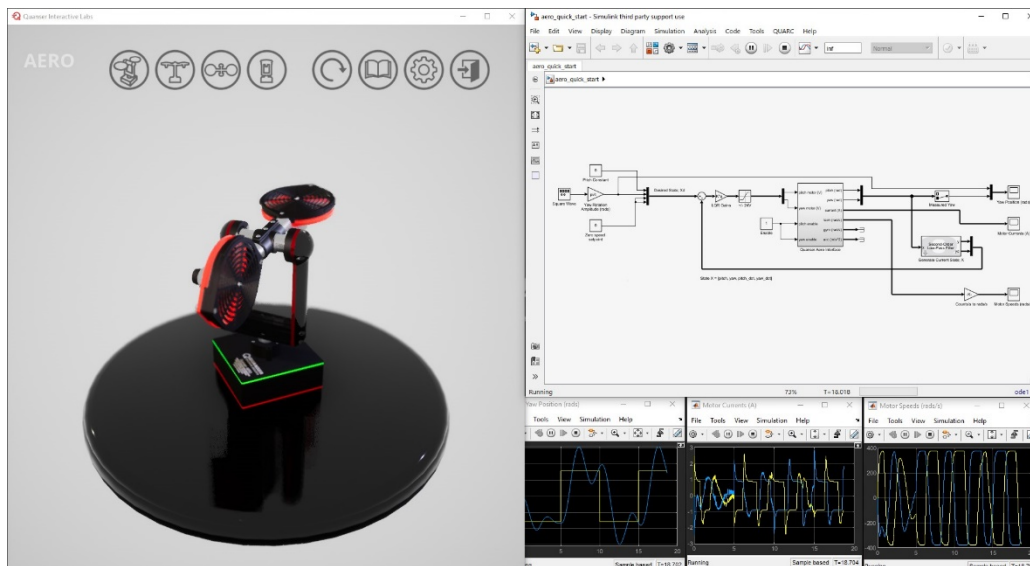
Visit the Quanser Academic Portal at <https://portal.quanser.com/Accounts/Register>. Follow the on-screen instructions to register and activate your account.

STEP 3 Download and Install QLABs

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

STEP 4 Testing the Virtual AERO

1. Open the **Quanser Interactive Labs** application and login using your account.
2. From the product list select **Aero**, then select **Aero Workspace**.
3. Click the *Options* icon and select **Helicopter configuration**. You should see a Virtual AERO as shown below.
4. Open the Simulink model **aero_quick_start.slx**.
5. Open the scopes labeled **Yaw Position (rads)**, **Motor Speeds (rads/s)**, and **Motor Currents (A)** and run the Simulink model.
6. Once the model is running, the Virtual AERO will start to track the commanded pitch and yaw angles. Your responses should look similar to the following.
7. Stop the model.



STEP 5 Download Curriculum

To download the full student version of the QLABs Virtual AERO 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