

# Join RPI3 to The OpenPandemics - COVID-19 Project

1. Go to <https://www.worldcommunitygrid.org/research/opp1/overview.do> and click the “Contribute to this Project” link. If it is no longer the top news item, you might need to search for it.

The screenshot shows the 'Research: OpenPandemics - COVID-19: Project Overview' page. At the top, there are links for 'Log In' and 'Join Now'. The main header includes the 'world community grid' logo, a search bar, and navigation links for 'Research', 'About', 'News', 'Community', 'My Contribution', and 'IBM'. Below the header, a large banner features the text 'OpenPandemics - COVID-19' and a detailed illustration of a virus cell, test tubes, and medical equipment. A prominent orange button says 'Contribute to this Project'. To the right of the banner, there's a section titled 'OpenPandemics - COVID-19' with tabs for 'Project Overview', 'Project News', 'Research Participants', 'Project FAQs', and 'Project Statistics'. The 'Project Overview' tab is selected, displaying information about COVID-19 and its symptoms, stating that there is currently no treatment or vaccine available.

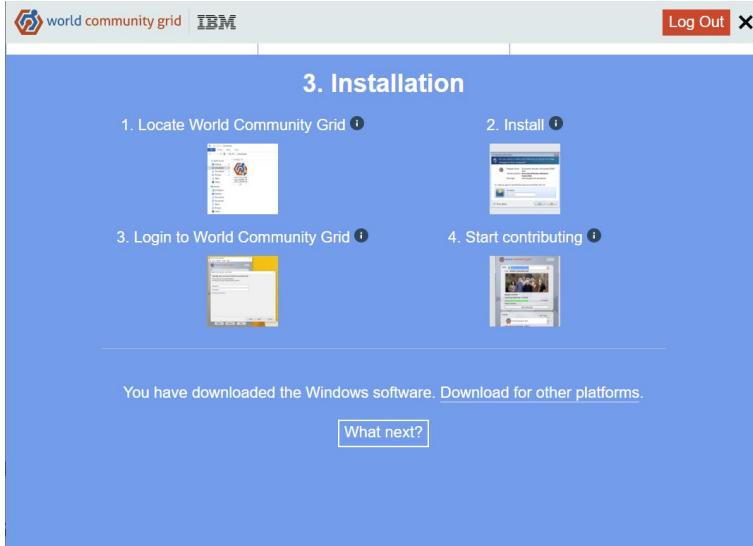
2. Sign up by setting email address and password, click to accept licence agreement, then click **Next >**.

The screenshot shows the '1. Sign up' registration form. It has fields for 'Email address' and 'Password', both with eye icon password inputs. Below the password field is a checkbox for 'Accept end user license agreement'. At the bottom are 'Next >' and 'Learn more' buttons.

3. Now you can select the projects you wish to run tasks for. Only **OpenPandemics - COVID-19** is selected by default. Click **Next >** to continue.

The screenshot shows the '2. Select projects' page. It lists several projects with checkboxes: 'OpenPandemics - COVID-19' (selected), 'Africa Rainfall Project', 'Microbiome Immunity Project', 'Help Stop TB', 'FightAIDS@Home - Phase 2', and 'Mapping Cancer Markers'. Each project has a small circular icon with a question mark. At the bottom is a 'Next >' button.

4. Next you will get information about installing on the computer you are on. In my case it is Windows and it will ask to download the Windows version of BOINC. Cancel this then click ***Download for other platforms***.

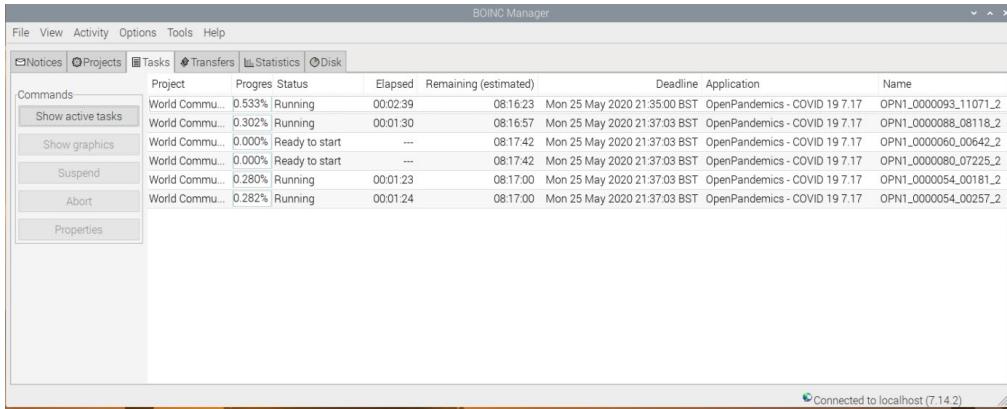


5. Select the Linux Debian distribution and click ***Next >***.



6. This will give you the steps to install BOINC on a Raspbian (Debian based) system. I will continue with the steps I took and anything on their instructions which didn't work. The original instructions are in [blue](#).
7. Download ***Raspbian with Desktop*** and burn to an SD card in the normal way.
8. Add SSH file to /boot folder before disconnecting if you are going to run headless.
9. Boot RPi3 with the SD card.
10. If you are running with a connected monitor, keyboard and mouse then do normal first login configuration on Raspbian. If running headless like me:
- Access via SSH and use ***raspi-config*** to update to latest version, enable VNC and set screen resolution suitable for VNC. Will reboot on completion.
  - Connect via VNC and do normal Raspbian auto-configuration.
11. In a terminal window, run the following command:  
`sudo apt install boinc-client boinc-manager`
12. Set the BOINC client to automatically start after you restart your computer:  
`sudo systemctl enable boinc-client`
13. Start the BOINC client:  
`sudo systemctl start boinc-client`
14. Allow group access to client access file:  
`sudo chmod g+r /var/lib/boinc-client/gui_rpc_auth.cfg`
15. Add your Linux user to the BOINC group to allow the BOINC Manager to communicate with the BOINC client  
`sudo usermod -a -G boinc $USER`
16. Allow your terminal to pick up the privileges of the new group (you will need to enter your RPi password when prompted):  
`exec su $USER`

17. In the same terminal window, start the BOINC Manager (I did this from the menu instead **System Tools → BOINC Manager**):  
**boincmgr -d /var/lib/boinc-client**
18. BOINC Manager opens, select **World Community Grid** from the list of BOINC projects then enter your World Community Grid email address and password.
19. When these steps are completed, you should see a screen to confirm that you've been successfully signed up to **World Community Grid**. You might initially see that the computer is running benchmarks to check configuration so that your RPi3 is only sent tasks which it can perform. Here is a screenshot of one of mine, and it looks like 3 tasks run at a time with others in the queue depending on what is available.



20. After this it is BOINC as on a Windows or Mac system and the same commands exist for management as on the Web GUI for Rosetta@home.