

Maker Mask Crowd-Sourcing Initiative **Providing a free 3D printing solution for Respirator Masks**

Enabling communities to create respirator masks, visors, and medical supplies locally and quickly to decrease the spread of infection, protect people, and reduce burdens on medical facilities. We give citizens and organizations a way to participate in solutions to the COVID-19 pandemic, while building and training for a similar future capability.

To cooperate with government and private response efforts, engineer Rory Larson is offering the first medically approved Computer Aided Design (CAD) for 3D printed masks. Called **Maker Mask**, this respirator mask is available to the government and the public free-of-charge through an open-source model.



Dr. Qin using the Maker Mask at Seattle Children's Hospital

- See a demonstration from March 23, 2020 here: <https://youtu.be/MgBNaB5LTh4>
- The Seattle Children's Hospital provisionally approved using the Maker Mask by laboratorians after testing the mask's fit, breathability, comfort, and other factors. Dr. Xuan Qin, Professor of Laboratory Medicine, called the Maker Mask, "nicely designed," and "really useful" for laboratorians who process patient specimens.
 - Production through 3D printing reduces mask cost to \$2.00 - \$3.00 per unit, not including costs for electricity and labor.
 - This 3D printing CAD, provided free of charge, will enable willing and able government organizations, universities, community colleges, schools, churches, civic groups, makerspaces, and any group with 3D printing equipment to rapidly and affordably produce masks to reduce the spread of COVID-19.
 - A team in Seattle is launching a crowd-sourcing franchise pilot to demonstrate the feasibility of community-based production. Equipped with 3D printers and supplies, the team plans to operate 24 hours a day, making over 800 masks in a week.
 - Maker Mask is collaborating with the National Institutes of Health (NIH), America Makes, getusppe.org, InfraGard National, Matter Hackers, Nation of Makers, MITRE, Teach for America, the U.S. Department of Veterans Affairs, the U.S. Military, Whiteford Taylor & Preston, and more partners to address shortages of personal protective equipment.

Visit the Maker Mask Distribution Website for information on how to access the Maker Mask CAD, training, and instructions on how to be part of this innovative solution: www.makermask.com

