

Thank you for your interest in assisting the Student-led Face-Shield Initiative (SFSI)!

This Google Drive should have all of the information you need to help us get face-shields printed for use in hospitals, where Personal Protective Equipment (PPE) is running low due to the COVID-19 crisis. If you have questions after reviewing this document and the referenced materials, please do not hesitate to contact Cyril Mani at cyril.mani.sfsi@gmail.com.

UPDATE (April-May) -- We have ceased our manufacturing and delivery of PPE following the amazing response of the private sector which has successfully shifted its production to supply health care workers with essential PPE. We were able to fill the gap in the supply of face shields in the time it took Bauer Hockey to begin their production and delivery of the visers, but as they are now supplying the hospitals in Montreal that we were previously working with, our initiative is no longer needed. If you would still like to help in the production of PPE for other essential workers, please see The Protection Collective: <https://www.protectioncollective.ca/contribute/>

First, some info about us:

We are a group of six students who have launched an initiative in Montreal to produce PPE using our personal 3D printers, starting from an open source design of a face shield shared by the Czech company Prusa, which was recently accredited by Health Canada. Supplies of this type of face shield are beginning to dwindle in North America, and the McGill University Health Centre (MUHC) is predicting a shortage in the greater Montreal region. We have created a partnership with the MUHC to distribute the face shields that we produce. Our goal is to donate all that we produce to hospitals in Montreal.

Currently, across our network, we have 10 3D-printers (including one of the largest in Canada), laser cutters and a large network of suppliers (limiting the risk of perturbations), all operating full-time to produce approximately **175 viser mounts per day**. Our network of supporters and collaborators includes the Canadian Space Agency, Polytechnique Montréal, DBM Enterprises INC., Poly Fab, the Technology Sandbox at Concordia and many others.

We are currently calling for students, professionals, companies, libraries and municipalities in Montreal to use their 3D printers to increase the production volume of the face shields, so that we may ideally also supply other cities including New York where COVID-19 is presenting an overwhelming burden on health care systems.

We are currently working in coordination with the Executive Director and CSO (interim) of the Research Institute of the MUHC, Dr. Bruce Mazer, and with the approval of the Executive Director of the MUHC, Dr. Pierre Gfeller.

We firmly believe that together, with your assistance, we will be able to have a positive impact in this crisis and help the medical staff at the forefront of this pandemic. We welcome your help, in whatever form it may take, and thank you for spreading the word and uniting with us and health care workers in these difficult times.

Want to know more about our team? [Check out this doc!](#)

Have questions related to our operations and organization? [See here!](#)

How to Help if....

[I have access to a laser cutter, vinyl cutter, 3D printer or a supply of any of the materials required for manufacturing \(PLA, PETG, acetate, PVC* etc.\).](#)

[I would like to help purchase or provide materials required for the manufacturing of the face shields.](#)

[I am a member of the public and want to help spread the word.](#)

[I work for a media outlet and want to cover your efforts.](#)

I have access to a laser cutter, vinyl cutter, 3D printer or a supply of any of the materials required for manufacturing (PLA, PETG, acetate, PVC* etc.).

Please fill out this form to let us know what you have and in what quantity and we will write back to you ASAP to let you know how we could best use your assistance.

bit.ly/IHaveStuffForTheSFSI

(full link if bit.ly does not work:

https://docs.google.com/forms/d/e/1FAIpQLSfvCYMTig4PSMuwNxoseCNGJzXcw8vEusBFiGxmyx_4rgfPfg/viewform?usp=sf_link)

For technical assistance with 3D printing designs, please contact cyril.mani.sfsi@gmail.com

For questions about laser cutting, please contact : jordan.j.bowden@gmail.com

If using PVC, DO NOT use a laser cutter -- this will result in chlorine gas production

I would like to help purchase or provide materials required for the manufacturing of the face shields.

The transparent material used to make the shields is available for purchase on [Amazon](#), as well as from a few other suppliers. However, due to large volumes of orders being placed, distribution may not take place on the time scale we need it to in order to produce face shields quickly enough. If you do have a contact with a producer who may be able to ship on the timescale of a few days, please contact cyril.mani.sfsi@gmail.com

I am a member of the public and want to help spread the word.

The best way you can help is to spread awareness about the shortage (note that while masks may be in good supply for the moment, face shields, which are worn over top of masks often, are not), and share information about this initiative.

Global News covered the student-led initiative recently, so please share this article which covers the issue and solution we're working on:

<https://globalnews.ca/news/6727301/coronavirus-mcgill-students-3d-face-masks/>

*****Most importantly, please direct people to this google drive!*****

bit.ly/HowtoHelpSFSI

(Full link, if bit.ly link does not work:

https://drive.google.com/open?id=1zghvHXLieVuzi3NOB18ikqcjnX_ySYSc)

I work for a media outlet and want to cover your efforts.

Please get in touch with cyril.mani.sfsi@gmail.com, and when your story is published, please encourage readers / viewers to consult this Google Drive if they want to assist:

bit.ly/HowtoHelpSFSI

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https://drive.google.com/open?id=1zghvHXLieVuzi3NOB18ikqcjnX_ySYSc)