

NIH 3D Print Exchange: Design Submission for COVID-19 Supply Chain Response

<https://3dprint.nih.gov/collections/covid-19-response>

ACCOUNT CREATION

1. If you do not already have an account, you create for free at <https://3dprint.nih.gov/user/register>. In the “Other” field, please provide information about you, your organization, role, and any relevant links. This information is intended to provide context and credibility as to the source of the models shared from the account. The account may be for an individual or an organization.

[Home](#) » [User account](#)

Username *

Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

E-mail address *

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish certain news or notifications by e-mail.

Full Name

(Optional) Add your full name, if it is different from your username.

Other

Optional: Share information about yourself, your affiliation, or your interest in 3D printing or 3D modeling, to display on your user profile page.

I'm not a robot 
reCAPTCHA
Privacy - Terms

By creating an account, you agree to our [privacy policy](#).

Leave this field blank

2. Check your email and follow the link to confirm your account and create a password.

UPLOADING YOUR DESIGN

1. Login to the site and navigate to the Share page at <https://3dprint.nih.gov/share>.
2. On the Share page, select the “**Labware & Devices**” category for your submission, or go directly to <https://3dprint.nih.gov/share/laboratory-equipment>.

Share

Creative Commons licenses can be applied to models submitted to our database. Read our [licensing policy](#) to find out more information on permission, attribution, and how to choose a license.

Click an image below to share your 3D-printable model



MEDICAL &
ANATOMICAL



LABWARE & DEVICES



SMALL MOLECULES,
CHEMICALS



PROTEINS,
MACROMOLECULES,
& VIRUSES



BACTERIA,
ORGANELLES, CELLS,
& MORE

Don't have a model to share? Visit the [Learn](#) page to view our tutorials, or use our [online tools](#) to generate 3D-printable models from a wide selection of file formats.

3. In the “General Information” tab:

- a. Select a value from the “Device Use” drop-down list.

Category *
Labware & Devices
Select one that best describes your model

Device Use
- Select a value -
- Select a value -
Animal Husbandry
Clinical Equipment or Adapter
Electrophoresis
Flow Cytometry
General Equipment and Adapters
Histology/Cytology
Microscopy
Molecular Biology
Safety and Personal Protective Equipment
Tissue Culture
Other

- b. **Keywords** are required and will autopopulate as you type. **If you are a manufacturer submitting designs for America Makes, you should include “America Makes” as one of your keywords** and/or in the description.
- c. Provide as detailed a description as possible. You should also include any information with regard to if/how the print has been tested for safety purposes, if applicable, and any liability disclaimer if desired.

Note that models added to the collection will be designated by NIH site administrators as “FDA Emergency Use Authorization,” “Tested,” or “Prototype;” These terms will be defined on the site page, and may be modified or added to as necessary. Designs for critical parts with a high level of risk maybe have a “Warning” disclaimer.

- d. Fields are provided to select “Segmentation Software” and “3D Modeling/CAD Software.” The fields will autopopulate so you can select from existing items in the list, or you may add your own and it will be added to the list.
 - e. If this design is a derivative or “Remix” of an existing model on the site, you should
4. **In the “Licensing and Terms” tab**, you must select a license for sharing the content. This includes commonly used copyright and copyleft licenses, and the CERN Open Hardware License – Permissive v2.

5. In the “Upload Your Files” tab:

- a. The 3D Model File upload field will accept STL, WRL, and X3D. This is by design, so that our pipelines can automatically generate binary X3D files that can be displayed in the 3D viewer in the browser. This means that will have to convert any CAD files to STL prior to upload.
- b. Source CAD files and other 3D printable formats may be uploaded in the “Additional Model File(s)” field. A range of formats are allowed including: *3mf amf avi blend cad cmp csg dwb dwf dwg dxf fcstd gcode iam igs ipt ma max mb mesh mrc mtl obj off plc ply scad sldprt sol step stp sts*

Please contact 3Dprint@nih.gov if you do not see a critical type to include.

- c. Photos of the printed object can be uploaded to the “Additional Image Files” field.

- d. If you have supplemental documentation you would like to append (e.g., PDF, TXT, DOC, etc.) these can be uploaded in the “Supplemental Files” field.

▼ **UPLOAD YOUR FILE(S)**

3D Model File

Please make sure the file name does not contain special characters such as the following: , # / : ? \ % If uploading multiple files, all file names must be unique.

Add a new file *

No file chosen

Files must be less than **200 MB**.
Allowed file types: *stl wrl vrmf x3d*.

Mesh repair

Check this box to send your model through the Netfabb mesh repair process, to improve printability. Please note that this may add an additional 5 to 10 minutes of processing time, or longer for very large models. [Read more](#)

Additional Model File(s)

Upload additional files such as raw data or original 3D file format to allow users to alter or “remix” your model. Please make sure the file name does not contain special characters such as the following: , # / : ? \ % If uploading multiple files, all file names must be unique.

Add a new file

No file chosen

Files must be less than **200 MB**.
Allowed file types: *zip 3mf amf avi blend cad cmp csg dwb dwf dwg dxf fcstd gcode iam igs ipt ma max mb mesh mrc mtl obj off plc ply scad sldprt sol step stp sts*.

Additional Image(s)

Upload picture(s) of your printed model. Please make sure the file name does not contain special characters such as the following: , # / : ? \ % If uploading multiple files, all file names must be unique.

Add a new file

No file chosen

Files must be less than **200 MB**.
Allowed file types: *png gif jpg jpeg*.

Supplemental Documentation

File names should not contain special characters such as the following: , # / : ? \ % If uploading multiple files, all file names must be unique.

Add a new file

No file chosen

Files must be less than **200 MB**.
Allowed file types: *doc docx pdf ppt pptx rft txt xlsx xls md ai svg eps mov mp4 zip*.

6. In the “3D Printing Instructions” tab:

- a. Select Printer Technology from the drop down list, and a list of Material options related to that Technology will be displayed. If the material you want to include is not shown, you can add your own.
- b. Printer Make/Model will autopopulate with items in the existing list, or you can add your own and they will be added to the list.
- c. Print Units, Scale, and Processing Instructions should be included.

3D PRINTING INFORMATION

Printer Technology/Material Printer Make/Model
Technology

Print Units Scale At Given Print Units

Pre- and Postprocessing Instructions

Format - B I |

[Switch to plain text editor](#)

Please include any post-printing instructions or additional information.

AFTER YOUR SUBMISSION

Check your email for a link when your model is ready. You will be required to review the entry and mark it as published.

A site administrator will check that you have provided an appropriate level of documentation. You may be contacted and asked to provide additional information.

Your design may be flagged to appear on the collection page. Depending on availability and the level of detail provided and potential for use, your design may be forwarded to the testing stage for validation by vetted partners in government, including the VA, Navy, FDA, or certified medical 3D printing labs.