

Additive Manufacturing Lab

Please fill out the form below to submit a work request to the Additive Manufacturing Lab.

Personal Details

First Name *

Last Name *

Email *

Phone Number *

Adviser/Account Holder Email *

Enter the email address of the Adviser/Instructor/Account holder who is in charge of the account that will pay for this job. Below are some common examples:

- For class related projects (ME 170, 270, 415, 466, or equivalent design/capstone courses), this would be your instructor's email
- For research projects this would be the email of the faculty member in charge of the research
- For student organizations this would be the email of the club treasurer
- For personal projects that are U-bill funded this would be your own email again

✉ kennyljh@iastate.edu

Project Information

Project Name *

Please limit to 100 characters

Simple Robot

Job Description *

Include any information relevant to the job such as part quantities, part orientation requirements, etc.

Total of 3 separate parts, the base, middle, and front.

Business Purpose *

What are the funds being spend on and why?

Funds are being spent on printing a robot chassis. This is to build an ...

What is the job for? *

Select the option that applies to this request

Class



Course Information

Include the Department Code, Course Number, Section, and Team/Group number.

Example: ME 415 Section 1 Team A12

COM S 4020 Team 1

Job Request Details

Please select the desired machine/process *

Hobby Printers (Ender 3 or Voron 2.4)



Material

For more information on the materials visit <https://www.me.iastate.edu/additive-manufacturing-lab/fdm-materials/>

Note: PLA is the default material. There is a labor charge associated with printing in other materials, making PLA the least expensive in most situations.

PLA



Infill Density

Higher infill percentages increase strength, but also increase cost and time to print

30% (strong)



Resolution

Finer resolution (smaller layer height) increases detail but also increases time to print.

Note: 0.20mm is the standard and is suitable for most parts. Only select finer resolutions if it is absolutely needed.

0.20mm/0.008" (Course)



Rough Project Size *

Please specify the size of each part in inches.

Example:

Part 1: 2" x 4" x 5"

Part 2: 1" x 5" x 1"

Base: 10.62" x 8.06" x 0.99"

Middle: 8.06" x 7.71" x 4.32"

Front: 8.05" x 3.50" x 9.56"

If this is a request for a:

- 3D printed part - please upload the files to be 3D printed. We accept almost all 3D model filetypes.
- Laser cutting request - please upload a DXF, SVG, or DWG. Make sure to include dimensions and units in the "Rough Project Size" as scaling issues are common.
- 3D Scanning request - please upload images of the part to be scanned.

Files are limited to 30Mb. If the files are larger than this, please contact the Additive Manufacturing Lab (me_aml@iastate.edu) for instructions.



Robot - Middle.3mf

119 KB



Robot Base.3mf

60.1 KB



Robot - Front.3mf

116.7 KB



Drop your files here

[Browse](#)

Submitter Initials *

Please initial below

Kenny

Authorization Date *

Please select the current date for "Authorization Date".

Note: this is for accounting purposes only. You will not be billed at this stage - billing only happens after you receive and approve a quote and receive your parts.

09/22/2025

**Additional Comments from Submitter**

Remember to include any information below that was not covered above. This includes, but is not limited to:

- Heated Insert installation / location
- Custom material request
- Stock delivery for CNC Milling or laser cutting
- Part quantities request

None



Read Before Clicking Submit:

Once you click "Submit" we will review the job request and send you a quote for the job with 3 business days.

Keep an eye out for an email from Smartsheet (automation@app.smartsheet.com) with the quote asking for an update request.

Follow the instructions in the email to approve or deny the project.

Once you've approved the project it will then go to the adviser/account holder for final approval. Once final approval has been received we will start working on the job request.

Note: If this is for a student organization, your treasurer will need to fill out a COA Purchase Order before printing begins. More information can be found here: <https://www.controller.iastate.edu/campusorg/purchase-orders.pdf>.

You will be notified once the parts are completed.

If you have any questions reach out to the Additive Manufacturing Lab team at me_aml@iastate.edu

Submit

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