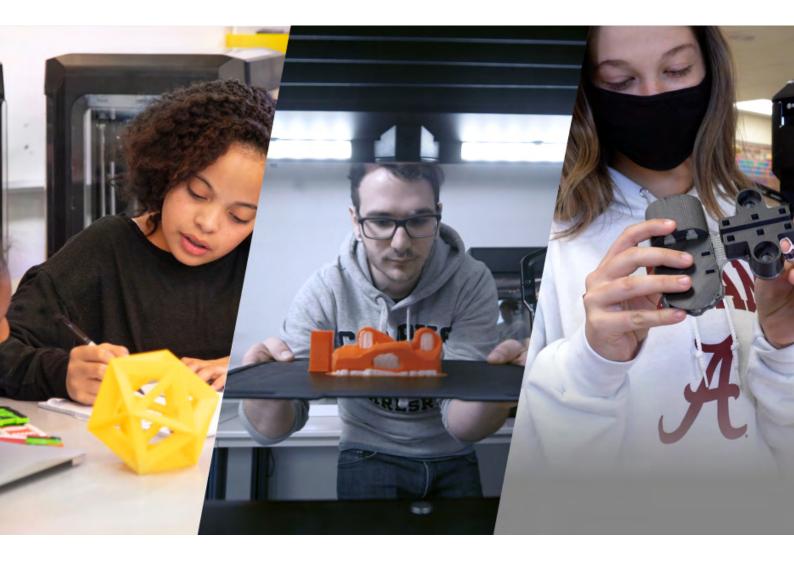
MakerBot. Education



2023 MAKERBOT GRANT GUIDE

The comprehensive guide to grants, awards and scholarships for 3D printing and education in 2023. This clickable guide has grants available for K12, Higher Education and Professional Development that can be used towards your first MakerBot 3D printer, 3D printing materials and 3D printer training with MakerBot!

Please note - the grants and awards listed in this guide are subject to change at the funding organization's discretion.

CONTENTS:

- 2023 Grant Guide Over 40 grants available
- 10 Tips to Secure a Grant for your Classroom or School
- 10-Step Classroom 3D Printing Action Checklist

Applicable to

Grades K-12 and Higher Education

Motorola Solutions Foundation Innovation Generation Grants

Grants will be considered for programs supporting STEM for elementary through university students and teachers.

APPLICATION DEADLINE
April 19, 2023

Pitsco Grant Application

This grant is awarded in the form of a gift certificate that may be used to purchase hands-on STEM products, curriculum, and more. Applications are accepted from the first day of each month to the last day of the month.

APPLICATION DEADLINE
Last day of each month.

Dr. Scholl Foundation

*Also available to Canada

Applications for grants are considered in the following areas: Education, social service, healthcare, civic and cultural, and environmental. The Dr. Scholl Foundation application form can be submitted between October 1 and March 1 of the following year.

APPLICATION DEADLINE March 1st, 2023

National Council of Teachers of Mathematics

An ongoing list of grants, scholarships, and awards.

APPLICATION DEADLINE

Varies

National Science Foundation

*Also available to Canada

An ongoing list of grants, scholarships, and awards.

APPLICATION DEADLINE
Varies

Lockheed Martin Grants

*Also available to Canada

Grants will be considered for K-12 public schools and higher education institutions that cultivate the STEM workforce of the future. Applications are invitation only.

APPLICATION DEADLINE Rolling

Alternative Fuel Foundation Grant

Funds are available for educational institutions to aid in the development of programs that promote renewable energy, environmental sustainability, and earth stewardship.

APPLICATION DEADLINE Rolling,

reviewed quarterly

NEA Learning and Leadership Grants

Grants will be considered for public school teachers, public education support professionals, and/or faculty and staff in public institutions of higher education who are members of NEA. Applications are reviewed 3 times per year with deadlines of February 1st, April 28th, and September 15, 2023.

APPLICATION DEADLINE

Rolling basis, window opens 3 times a year

NEA Student Achievement Grants

Grants are awarded for students in public schools, libraries and public higher education institutions who are members of the NEA. Applications are reviewed 3 times per year with deadlines of February 1st, April 27th, and September 15, 2023.

APPLICATION
DEADLINE
Rolling basis, window
opens 3 times a year

Hearst Foundation

Grants will be considered with a focus on higher education students but K-12 educators are encouraged to apply. Applications are accepted year round and will be reviewed within 4-6 weeks.

APPLICATION DEADLINE
Rolling

HEB Excellence in Education Awards

Awards will be awarded to outstanding public school professionals who go the extra mile every day to serve their students and communities. Nominations and Applications open in May for the 2024 year.

APPLICATION DEADLINE TBD

SRP Learning Grants for Schools, Teachers and Students

*Only available to those in Arizona (Phoenix Metropolitan area)

Grants will be awarded to schools, teachers and students who develop projects and programs geared towards state-mandated competencies. Funds can be used to support innovative teaching strategies that improve student performance objectives in math and science. Admission window opens in October.

APPLICATION
DEADLINE
02/28/2023, Window
opens again in
October

Mazda Foundation Grant

The Mazda Foundation primarily considers grant applications from organizations located in markets where Mazda has offices (Irvine, CA; Bridgewater, NJ; Chicago, IL; Sugarland, TX; Jacksonville, FL; and Huntsville, AL). Application window opens in May.

APPLICATION DEADLINE 07/01/2023

Applicable to

ALL K12 Grade Levels

Wells Fargo Grants

Grants will be considered for schools, philanthropy & volunteerism, community development loans and investments, and environmental activities. Deadline to submit applications differs by region.

APPLICATION DEADLINE Window opens in February

Walmart - Community Grant Program

*Application window open Feb. 1, 2023

Grants will be considered for K-12 public or private school, charter school, community/junior college, state/private college or university. Applications may be submitted at any time during this funding cycle. Please note that applications will only remain pending in our system for 90 days.

APPLICATION DEADLINE Dec. 31, 2023

Westinghouse Charitable Giving Program

Area needs to be within 50 miles of a U.S. Westinghouse site.

Grants will be considered for education with a focus on STEM. Applications are accepted on a rolling basis.

APPLICATION DEADLINE Rolling, reviewed quarterly

AIAA Foundation Classroom Grant Program

The American Institute of Aeronautics and Astronauts is dedicated to the importance of STEM education and awards \$500 in grants to K-12 teachers who want to incorporate new ways of teaching science, technology, education and mathematics into their classroom. Submission window opens in June.

APPLICATION DEADLINE TBA

NWA Sol Hirsh Education Fund Grants

The National Weather Association aims to support the importance of meteorology in elementary, middle and high school by awarding grants to teachers who demonstrate a commitment to improving the quality of meteorology education.

APPLICATION DEADLINE TBA

Reiman Foundation

*Also open to those in Canada

The Reiman Foundation focuses its giving in four main areas: Healthcare, education, the arts, and children. Applications are accepted all year-round.

APPLICATION DEADLINE Rolling Basis

Shell Science Lab Challenge

Academic Contest

*Challenge only available to California, Texas, Louisiana, Pennsylvania

Science educators in middle and high school programs are able to apply to compete in the contest. The Challenge will portray the work of teachers who submit innovative, replicable strategies to deliver quality lab experiences with limited equipment/resources. Submission window opens in Fall.

APPLICATION DEADLINE January of the following year

DonorsChoose.org

Connect to a thriving community of donors eager to fund classroom projects.

APPLICATION DEADLINE

Varies

Computers For Learning

The EO directs agencies to give highest preference to schools and nonprofit organizations, including community-based educational organizations through gift or donation, of computers and related peripheral equipment excess to their needs.

APPLICATION DEADLINE
Varies

Verizon Foundation Grants

Grants will be considered for projects that promote STEM education and improve learning through the use of technology in the classroom.

APPLICATION
DEADLINE
By invitation only

Technology Education Foundation

Greater Dane and Madison County, Wisconsin Areas Only.

Grants will be considered for K-12 programs. Applications will be accepted until March 31st.

APPLICATION DEADLINE 04/09/23

The After School Advantage Program

*Also open to those in Canada

Grants are awarded to non-profit community agencies and public schools with digital learning centers for disadvantaged children. Submissions are accepted and reviewed on a rolling basis.

APPLICATION DEADLINE
Rolling

Perloff Family Foundation Grants

Grants are limited to the state of Maine. The objective of the foundation is to provide a source of funding that enables teachers to be educational innovators who are committed to planning, risk taking and achieving timely results. Variety of grants considered for K-12 schools and academies.

APPLICATION
DEADLINE
Various deadlines

McCarthey Dressman Education Foundation for Academic Enrichment Grant

Grants will be considered for K-12 librarians and educators, who are employed by schools or non-profit organizations, with unique ideas for projects that supplement classroom curriculums for low-income households. Submission period is available from January 15 - April 15 every year.

APPLICATION DEADLINE 04/15/2023 or 350 submissions, if sooner.

McCarthey Dressman Education Foundation for Teacher Development

Grants will be considered for K-12 teachers employed in public or private schools.

APPLICATION DEADLINE 04/15/2023 or 350 submissions, if sooner.

Voya Unsung Heroes

Grants will be considered for K-12 educators utilizing new teaching methods and techniques that carry out effective and innovative projects that improve student learning.

APPLICATION DEADLINE 04/28/2023

Martha Holden Jennings Foundation Grant

Grants will be considered for any teacher (Pre-K – grade 12) or administrator in Ohio's primary or secondary schools. All grants awarded to projects that align with one of our two themes, deep learning and excellent teaching. Every successful grant application clearly outlines as a project that employs these primary themes.

APPLICATION
DEADLINE
Rolling deadline

Webb Family Foundation

New applications and grant renewals are considered yearly for a general operating support grant. The foundation hosts one grant cycle per year. Both new considerations and grant renewals are evaluated together to identify the most outstanding organizations in the same cycle. Application window opens in January.

APPLICATION DEADLINE
June 2023

General Motors Grant Program

General Motors believes that creating a global community will transform the world into one that is more livable, sustainable and prosperous. Our commitment is demonstrated through investments in STEM education, vehicle and road safety and community development.

APPLICATION
DEADLINE
Four Month Review
Period

McCarthey Dressman Education Foundation

Grants will be considered for K-12 educators with unique ideas for projects that supplement classroom curriculums for low-income households. Accepts a maximum of 350 submissions. Application window opens in January.

APPLICATION DEADLINE 04/15/23

Toyota USA Foundation Grants

Grants will be considered for projects that promote STEM education and improve learning through the use of technology in the classroom. Refer to deadline for each facility on the grant website.

APPLICATION DEADLINE Varies

Best Buy School Tech Grants

Grants will be considered for elementary and secondary schools looking to bring new technologies into their classrooms to help students excel. Application window opens in Fall. *Only available to those in Canada

APPLICATION DEADLINE TBA

Space STEM Initiatives for Youth

Grants will be considered for initiatives that include a focus or element related to increased awareness, knowledge, and/or experience of the space-related discipline among K-12 youth and educators.

DEADLINE 4/30/23

APPLICATION

*Only available to Canada

Applicable to

High School (Grades 9-12)

Harbor Freight - Prize for Teaching Excellence

The Harbor Freight Tools for Schools Prize for Teaching Excellence annually awards more than \$1 million to 18 outstanding skilled trades teachers and programs in U.S. public high schools.

APPLICATION DEADLINE
Spring 2023

Applicable to

Middle School & High School (Grades 6-12)

Samsung Solve for Tomorrow

Academic Contest with a single winner per state

Teachers in STEM education complete a Solve for Tomorrow online application to bring new technology to their school.

APPLICATION DEADLINE Window opens Septmeber 2023

Toshiba America Foundation

Grade 6 - Grade 12

Grants will be considered for grade level 6-12 teachers who are passionate about making science and mathematics more engaging in the classroom. Applications are accepted throughout the calendar year.

APPLICATION DEADLINE
Varies

Applicable to

Elementary (Grades K-5)

Toshiba America Foundation Kindergarten-Grade 5

Grants will be considered for grade level K-5 teachers to help bring an innovative hands-on project into their classroom.

APPLICATION DEADLINE 10/01/2023

Applicable to

Higher Education, Research & Professional Development

ITEA FTEE Undergraduate Scholarship

Grants will be considered for undergraduate FTEE members majoring in technology and engineering education teacher preparation.

APPLICATION DEADLINE 11/01/2023

ITEA FTEE Teacher Professional Development Scholarship

The grant's purpose is to support teachers in their preparation to increase the positive outcomes of technology and engineering education.

ACS-Hach High School Chemistry Classroom Grant

ACS-Hach High School Chemistry Classroom Grants support ideas and higher level educators that enhance classroom learning, foster student development, and reveal the wonders of chemistry.

Imperial Oil - University Research Awards

*Only open to those in Canada

Awards for specific research projects are made to full-time faculty members to support research work carried out by university students under their direction.

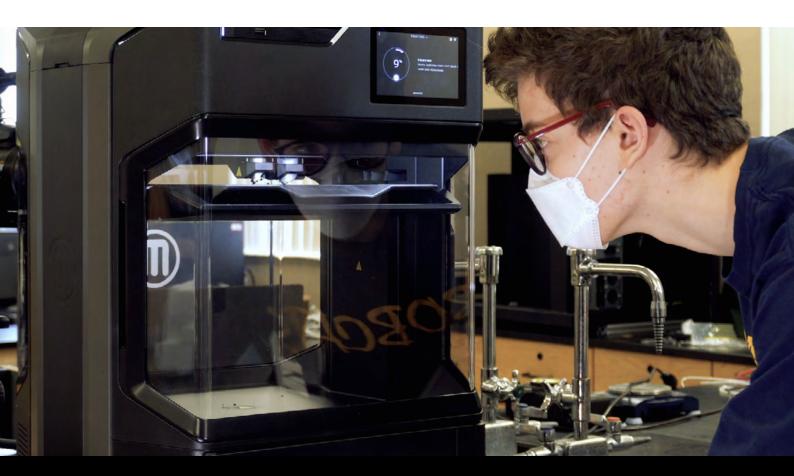
APPLICATION DEADLINE
11/01/2023

APPLICATION
DEADLINE
Submission window
opens October 2023.

APPLICATION DEADLINE 12/15/2023

Previously mentioned grants also eligible for Professional Development:

National Council of Teachers of Mathematics
National Science Foundation
DonorsChoose.org
NEA Learning and Leadership Grants



Ready to apply for a Grant? Contact a MakerBot Education Specialist today to get a free custom quote for the 3D printer solution you are applying for.

Call: +1 347 752 5571

Email: hello@makerbot.com

10-TIPS TO SECURE A GRANT FOR YOUR CLASSROOM OR SCHOOL

Winning a grant can be the difference between better resources for the classroom or funding an entire program. To help you secure a grant, we put together ten key tips:

1. START BY PLANNING AND PREPARING FOR YOUR GRANT APPLICATION

To submit a strong application on time, you will need to stay organized, build a list of all the documents or information you need, and assess how long it will take you to actually complete the application.

2. FOLLOW PROPER PROTOCOLS EVEN BEFORE YOU APPLY

In some states and school districts, you are required to obtain approval from a school board before requesting grants over a certain dollar amount. Don't put yourself through the work of a grant application only to later learn it's disqualified because of this protocol or others like it.

3. PLAN OUT IMPLEMENTATION OF THE GRANT

The person who applies for the grant isn't necessarily the one who implements it. Before you apply, you should have a very clear idea and plan of how it will be implemented, who will do so, and how success will be evaluated afterward.

4. FIND SOURCES AND BUILD A STRATEGIC LIST — STARTING WITH THE 2023 MAKERBOT GRANT GUIDE

To keep your research efficient, start by scouring the internet for the best places that list grants and then build a strategic list to work through. Both <u>Grants 4 Teachers</u> and <u>Grants.gov</u> are sites to bookmark and use along with the 2023 MakerBot Grant Guide.

You will want to start small and apply for grants that seem like the easiest to secure. Since you might need to apply for a variety, it's helpful to prioritize that list for your goals — whether it's by dollar amount or easiest-to-win.

5. CAREFULLY STUDY AN EXAMPLE OF A SUCCESSFUL GRANT APPLICATION

Many foundations and other grant sources provide an example of a successful application. Even if you have plenty of experience, you will want to study an example in case there are any unusual requirements. In the event when you cannot find the right sample, you can also try to contact a grant winner for a copy of their application.

6. DEVELOP A TEMPLATE FOR THE KEY ELEMENTS OF AN APPLICATION

Most grant proposals require the following at the very least; however, be prepared to include more.

• An Introduction to Your Organization

Describe your school and its mission

• The Project Description

Give a concise summary of goal and solution, what you hope to achieve, funding level sought, and identify your population

Your Needs

State the problem that you want to address or fix

The Solution

Specify how the grant fits into your larger solution

· Your Project Plan and Activities

Outline how your project will proceed

Your Budget

Scope out an exacting budget, not a loose estimate

How You Evaluate Success

Define the measure of success for your program

7. SOURCE COMPELLING STATISTICS AND FACTS

Since you aren't the only school applying for a grant, you need to separate your application from the rest. Citing compelling statistics can add objective power to your case. Reference <u>MakerBot's Trend Report in EDU & 3D Printing</u> for helpful facts and statistics.

8. REQUEST A PRECISE, ACCURATE FUNDING AMOUNT

Be exact when you request grant funding. If you ask for more than the grant offers, then your application will likely be disqualified. If you underestimate, then you will have to make up for the rest of the money. Also, always remember to account for small grant fees, like shipping and sales tax. To get a free custom quote for the 3D printer solution you are looking for, contact hello@makerbot.com.

9. WORKSHOP YOUR GRANT WRITING

To step up your grant applications, you might consider attending a workshop or listening to webinars. Leveraging the experience, intelligence, and feedback of others can only sharpen your skills.

10. PROOF YOUR APPLICATION RELENTLESSLY

Your grant application should be as inscrutable as possible. Even small errors, like typos, can lead to doubts about the seriousness of your application. Once you are done, step back, take a big-picture look at your application, and then send it off.

Good luck!

Ready to apply for a Grant? Contact a MakerBot Education Specialist today to get a free custom quote for the 3D printer solution you are applying for.

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Email: hello@makerbot.com



10-STEP CLASSROOM 3D PRINTING **ACTION CHECKLIST**

The MakerBot Education Team is proud to offer the industry's most fully-supported 3D printing solutions for educators. Use this comprehensive checklist as a way to get started 3D printing successfully in your classroom or school.

01. Set STEM	Learning Goals
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	Define Your STEM Learning Goals. What does success look like in your classroom or school? How can implementing a 3D printer help you to further meet these goals?
	Watch the Montclair School District Case Study. Learn how the Montclair school district in New Jersey successfully activated 3D printing across all grade levels to empower their STEM education goals. (Watch at https://www.makerbot.com/montclair-district-case-study/)
. Co	onsider Your Physical Space

02

Classroom Layout. Will the 3D printer live in a dedicated classroom or be accessed by multiple students in a shared lab
environment or travel cart?

3D Printer Placement. Consider ease of accessibility for students to interact with the printer.

03. Determine How Many 3D Printers You Need

Consider Student Access. Generally speaking, we recommend 1 printer for every 10 students. This ratio has proven to
minimize waiting times and encourage students to test their ideas.

Combine Multiple Student Projects. To save time, some instructors combine multiple student projects into one large print file to maximize a single printer or a limited number of printers.

04. Determine Your Budget

Talk with District Administrators or Your Principal. Some schools already have a budget allocated for STEM programs and
technology.

Utilize the MakerBot Educators Grant Guide. Use this guide to find Grants that are applicable to different grade levels, learning environments, and STEM initiatives.

05. Get Started with Tinkercad				
	Create an account at Tinkercad.com Tinkercad is a free browser-based 3D design tool for all educators and students. It can be accessed on most devices including iPads and Chromebooks.			
	Complete the Free Tinkercad Tutorials. Getting started with Tinkercad is the first step in creating your own 3D printable files. By completing the tutorials, you'll be better set up for success when translating your lesson plans and designs to 3D printable files.			
06. E	06. Explore Free Resources from MakerBot Education			
	Browse Thingiverse Education. With over 600 free lesson plans (some aligned with national standards) and an active educator community, Thingiverse Education is an invaluable resource for educators to ask questions, find lesson plan ideas, and become involved in the world's largest 3D printing community. (Browse at https://www.thingiverse.com/education)			
	Download the <i>MakerBot Educators Guidebook.</i> This definitive guide to 3D printing in the classroom contains an in-depth introduction to 3D printing followed by 9 curated lesson plans created by our MakerBot Educators and vetted by experts. (Download at https://www.makerbot.com/stories/3d-printing-education/free-ebook-makerbot-educators-guidebook/)			
07. U	07. Use MakerBot's Trends in 3D Printing and STEAM Education Report			
	Outline the Value of 3D Printing. MakerBot's new report on Trends in 3D Printing and STEAM Education aims to identify how STEAM subjects are being taught and the factors for 3D printing adoption in education. The report highlights 3D printing activities across grade levels, common applications, different teaching methods, and plans for virtual learning from over 1,000 respondents from our global network. (Download here) Share with Administrators or Principal. Share this information or use in a meeting to present the case for purchasing a single or multiple 3D printers at your institution.			
08. B	ecome MakerBot Certified™ While Earning PD Credits			
	Level 1: Operator Certification. Become a MakerBot 3D printing expert. Learn how to set up and manage your 3D printer, create your first prints, and troubleshoot common issues. (Learn more about our Certification program here)			
	Level 2: Curriculum Creator. Establish yourself and gain confidence as a STEM education leader. Learn how to teach the 3D printing process and develop your own 3D printing lesson plans and projects.			
09. G	et Started 3D Printing!			
	Don't Be Afraid to Experiment. Teaching yourself how to use the 3D printer during class can be a shared learning experience for you and your students.			
	Be a 'Learning Model'. Becoming a 3D designer and 'printer' yourself is the best way to inspire your students to do the same while embracing the learning process.			
10. K	10. Keep Learning, Keep Printing!			
	Grow on what you learn. The more you interact with 3D printers and modeling programs the more amazing applications you'll discover. Find how educators have been using 3D printing through our resources page.			
	Encourage Student Mistakes. As you and your students begin to think in 3D, keep in mind that mistakes are an essential part of the process. Each point of failure offers a critical learning opportunity while bringing students one step closer to innovation. See how students have used 3D printing here .			