Free Engineering CAD Software

1. FreeCAD



FreeCad is a 3D modeling program that allows for plugins to refine the user’s experience. It can import and export files in multiple formats and includes a drawing sheets module that creates 2D schematics of the 3D models you create.

Pricing: Totally open source and free CAD program.

Just visit <https://www.freecadweb.org/> for a free CAD software download.

2. Fusion 360

[](https://www.g2crowd.com/products/fusion-360/reviews?__hstc=171774463.ecdda53bd6a80dfd82142c9d883af145.1566577533195.1566577533195.1566577533195.1&__hssc=171774463.1.1566577533195&__hsfp=287398912)

Fusion 360 is a CAD tool that is available for free to startups and hobbyists. Along with 3D modeling tools, it offers a variety of assembly modeling, motion studies and simulation tools. It also has mobile functionality and robust collaboration tools.

Pricing: Free for hobbyists, students, and startups making less than $100,000 per year (that’s you)
Standard version: $40/month or $25/month for an annual subscription
Ultimate version: $190/month or $125/month for an annual subscription

Go to <https://www.autodesk.com/campaigns/fusion-360-for-hobbyists> to get access. You will need to create an account.

3. Onshape



OnShape is a 3D CAD tool that is free for non-commercial users. It has a variety of import and export options, as well as version control and an app store offering multiple add-ons and integrations. Unlike most CAD tools, Onshape does not use files, but stores all data in a database to be accessed by all other users in your group.

Pricing: Free for students and hobbyists
Professional version: $125/month per user, billed annually

Visit [www.Onshape.com](http://www.Onshape.com) to get started.

4. nanoCAD



NanoCAD is a free, industry-standard CAD tool that has a variety of APIs and a powerful table editor. It contains many tools for both 2D and 3D modeling, with multiple methods of creating geometric shapes available. Many of the features are also customizable.

Pricing: Free (standard version)
Plus version: Starting at $180
Pro version: Starting at $290

<https://nanocad.com/>

5. OpenSCAD



OpenSCAD is an open-source CAD program specifically for solid 3D models. This is a CAD program for programmers who want to create their models using computer code and OpenSCAD interprets the code and creates solid parts.

Pricing: Free
Features: 2D outline extrusion, constructive solid geometry, import/export

<https://www.openscad.org/>

6. Tinkercad



Tinkercad is a free, browser-based CAD program aimed at children and beginners. The program is based around a building block system, but can also import vector shapes and convert them to 3D. It also offers 3D printing services, integration with all 3D printers, and exports to laser cutters.

Pricing: Free
Features: Shapes, grouping, import 2D/3D, click-to-3D print support, laser cutting support, cloud storage

<https://www.tinkercad.com/>

7. 3D Slash



3D Slash is a free browser-based 3D modeling tool that uses a building block method similar to “Minecraft.” The program is ideal for kids and beginners. There is also a desktop version available, and it is easily used on tablets and other mobile devices. Designs can either be shared on social media or sent to a 3D printer.

Pricing: Free (standard version)
Premium: $2/month
Schools: $8/month
Professional: Starting at $20/month

Features: Basic modeling, painting, import/export, shapes, file sync, social share, 3D printing support

<https://www.3dslash.net/index.php>