

# WTF is a Fab Lab?

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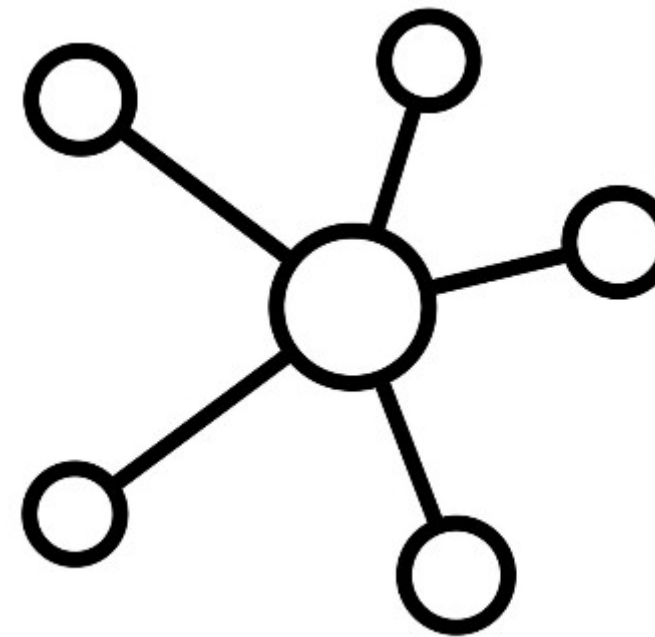


## Fab Lab

Fabrication Laboratory,  
short: Fab Lab

A Fab Lab is a small-scale workshop offering digital fabrication. A Fab Lab is typically equipped with an array of flexible computer-controlled tools [...] with the aim to **make "almost anything"** (Wikipedia)

Initiated by MIT, grown into a community / movement.



## Global Network / The Fab Charter

To be a Fab Lab means subscribing to a common charter which includes **open access to the Lab**, common equipment and other shared standards. It also means connecting to a global community of learners, educators, makers technologists, researchers and innovators - a knowledge sharing network.

>1000 Fab Labs worldwide.



## Fab Lab Siegen

Our Lab has been running as a project since ~2013. It is part of the Uni and **you can use it, too!**

See [www.fablab-siegen.de](http://www.fablab-siegen.de)

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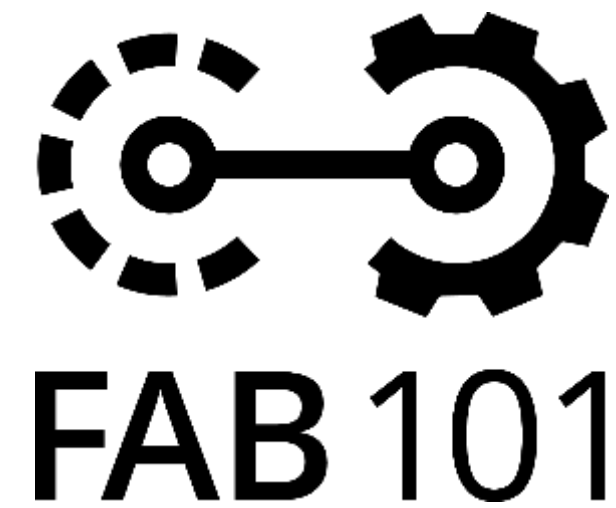
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# Fab(ulous) Research Projects



## FAB101

Federal research project 2017-2020. Unis Siegen, Aachen, Bremen & Folkwang HS work together on the integration of Fab Labs into Universities.

Areas for Student research:

- \* (Open) Hardware / Digital Fabrication in Education / Design.

- \* Applied projects using Digital Fabrication, Microcontrollers, Rapid Prototyping and similar.



## Fab Lab Siegen

Our Lab itself is a project (trying to develop into a more permanent infrastructure)

Areas for Student research:

- \* Organization development and (participatory) design of open laboratory spaces.

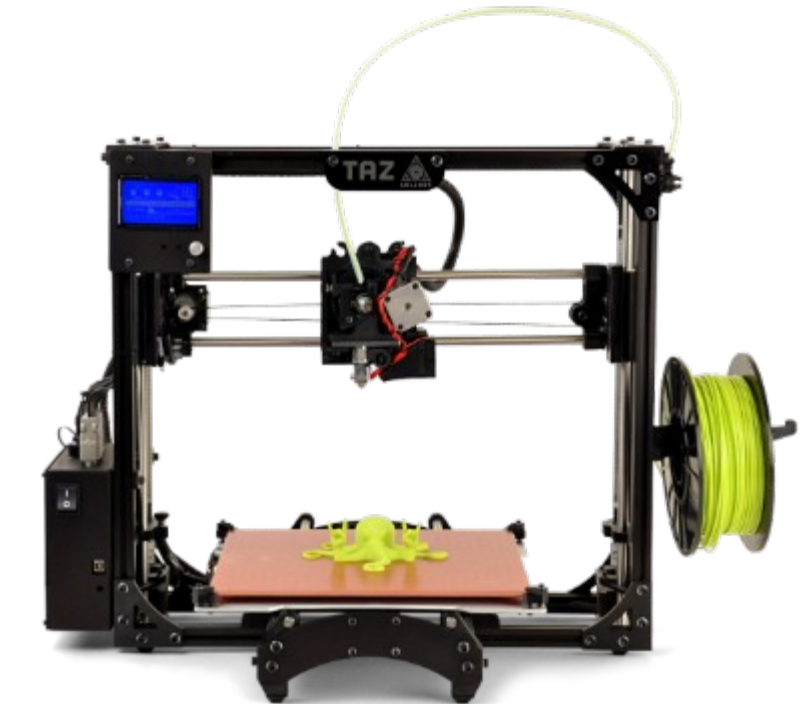
- \* Fab Labs & [ architecture | gender aspects | children | ICT support infrastructure | supporting user documentation | ... ].



## ZEIT.RAUM Siegen City Model

In project ZEIT.RAUM Siegen, part of our contribution was a 3D-printed city model using projection and touch. It is located in the Siegerlandmuseum and based on open hardware.

All sorts of interesting experiments and improvements are possible. It is possible to experiment with the physical model, the projection and the user interaction.



## SMAP

Upcoming federal 3-year project on working with Fab Labs and Digital Fabrication, especially with 3D printing and sensors. Includes application elements and also transfer to vocational education.

Areas for Student Research:

- \* Initial ethnographic and/or participatory work with vocational training institutions.
- \* Applied 3D printing and / or sensor projects

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