Welcome to the Gathering for Open Science Hardware (GOSH) Community!

The purpose of this document is to help new members get involved in the GOSH Community, by succinctly highlighting key aspects of GOSH, including events, communication channels, publications, and other resources. If you have any questions, feel free to reach out via email to the GOSH Community Coordinator at brianna@openhardware.science.

What is GOSH and Open Science Hardware?

GOSH
GOSH is a global community of researchers, hardware developers, educators, community scientists, and more dedicated to making open science hardware ubiquitous by 2025. One of the hallmarks of the GOSH Community is its annual Global Gatherings that have been held all around the world! If you'd like to know more about the GOSH Community, check out our about page.

Open Science Hardware
Science hardware encompasses the tools and machinery we use for scientific endeavors (for example, a microscope or environmental sensor). Open Science Hardware refers to science hardware that is open source – or free to use, change, study, and distribute.[1]

The Global Gatherings

The first GOSH Gathering was held at the European Organization for Nuclear Research (CERN) in 2016, and this gathering led to the creation of the GOSH Manifesto, which outlines the guiding principles and values of the GOSH Community. The next Gathering was held at Universidad Católica in Santiago, Chile in 2017, and it was there that the community came together to create a roadmap outlining actions and steps needed to make open science hardware ubiquitous by 2025. With an aim of growing the community, the last Gathering was in 2018 and was held at OpenFiesta, Tsinghua University, in Shenzhen, China. Now the next Gathering is set for Panamá in 2022!

Community Calls and Open Hours

Community Calls
GOSH community calls are virtual meetings aimed to share news about the activities and projects of GOSHers around the world. The calls usually consist of two 20-minute presentations of projects or topics, followed by discussion, and time for community announcements. Community calls are held once a month, and you can see a schedule for them here.

Open Hours
GOSH open hours are held twice a month and hosted by the GOSH Community Coordinator. These small, informal events are perfect for those wanting to learn more about the GOSH community. See a schedule for the open hours here.

The GOSH Forum

The GOSH Forum is the main communication channel for the GOSH Community. It's the best place to meet GOSHers from all over the world, learn about regional open science hardware communities, and find out more about upcoming GOSH events. Click here to sign up to the forum!

[1]This definition was adapted from the Open Source Hardware definition developed by the Open Source Hardware Association (OSHWA)

Funding Programs

GOSH currently hosts two funding schemes for supporting community members, the collaborative development program and regional events funding program. The GOSH Collaborative Development Program is for organisations and groups working on existing or new open science hardware projects, with the aim of building collaboration with industry experts, groups, and organisations. The Regional Events Funding program is for groups that want to host an event, workshop, conference, or get-together aimed at supporting open science hardware.

Publications

Members of the GOSH Community frequently host writing workshops to develop guidance on Open Science Hardware (OScH) aimed at stakeholders who are viewed as key in enabling ubiquitous adoption of OScH. Previous publications include policy briefs for technology transfer offices, science policymakers, and research funder audiences. GOSH has also published a framework for running community events, which shares knowledge on how to run a GOSH Gathering or regional event.

Regional Communities

In addition to the broader GOSH community, there are several regional and self-organized Open Science Hardware (OScH) communities, such as AfricaOSH, Great Lakes GOSH, and reGOSH (which is based in Latin America). Read more about these communities here!

First Steps to Get Involved!

Not sure where to start? Here are a few simple ways to get more involved in the GOSH Community!

Join the GOSH Forum • Attend an Open Hour or Community Call • Sign Up to the GOSH Newsletter • Check Out these existing open science hardware projects in the Community

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Key Links and Resources

- GOSH Community Forum - https://forum.openhardware.science/
- GOSH Manifesto - https://openhardware.science/gosh-manifesto/
- GOSH Roadmap - https://openhardware.science/global-open-science-hardware-roadmap/
- Code of Conduct - https://openhardware.science/gosh-2017/gosh-code-of-conduct/
- Community Calls - https://openhardware.science/about/community-calls/
- Open Hours - https://openhardware.science/open-hours/
- GOSH Monthly Newsletter - https://openhardware.science/gosh-monthly-newsletter/
- GOSH Twitter account - https://twitter.com/goshcommunity
- GOSH Youtube channel - https://www.youtube.com/channel/UCLI-5snguHaYqYjcIpF9Sxg
- GOSH Blog - https://openhardware.science/blog/
- List of regional and domain-specific GOSH Communities - https://openhardware.science/communities/
- List of open science hardware projects in the community - https://projects.openhardware.science/

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The GOSH Welcome Guide was created by the GOSH Community Coordinator, Bri Johns, and was last updated in April 2022.