

Semiconductor Workforce Development Through Open-Source Hardware and Software

EFFICIENT
SCALABLE
ADAPTABLE



OPEN RESEARCH
INSTITUTE, A NON-
PROFIT FOR OPEN
SOURCE

<https://openresearch.institute>

The State of Open Source Software and Hardware



98% of internet infrastructure is Open Source



It's highly likely your business uses Open Source work.



Open Source Services market size \$25 billion in 2022 with rapid growth.



Open Source hardware market is \$2 billion in 2022 with rapid growth.

Non-Traditional Workforce Development Categories



APPRENTICE PROGRAMS



BOOT CAMPS




DOCUMENTED
CONTRIBUTIONS TO OPEN
SOURCE TEAMS

Advantages

Efficient – you need a motivated person and modest lab gear



Scalable – open source work is individual to large team and can be done in parallel. Low barrier to entry combined with high standards. Code has to work.



Adaptable – if it can be done with computers and is properly defined someone can gain marketable skills by doing it.

Open Source Facts

GitHub or GitLab

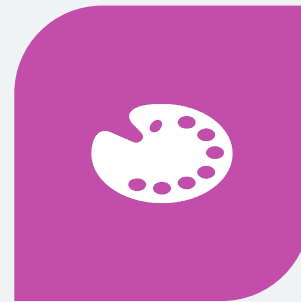
Free and Open Source Work
has Costs (golden goose)

Non-business-differentiating
work is the core strength

What's the Ask?



WE CAN GIVE YOU DESIGNS
DIRECTLY



WE CAN GIVE YOU DESIGNERS
WITH DOCUMENTED SKILL
SETS



BOTH PROCESSES NEED
MODEST SKILLED INVESTMENT
TO MEET CHIPS ACT NEEDS