



# Open-Source Lab: How to Build Your Own Hardware and Reduce Research Costs

*Joshua M. Pearce*

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*Open-Source Lab: How to Build Your Own Hardware and Reduce Scientific Research Costs* details the development of the free and open-source hardware revolution. The combination of open-source 3D printing and microcontrollers running on free software enables scientists, engineers, and lab personnel in every discipline to develop powerful research tools at unprecedented low costs. After reading *Open-Source Lab*, you will be able to:

- Lower equipment costs by making your own hardware
  - Build open-source hardware for scientific research
  - Actively participate in a community in which scientific results are more easily replicated and cited
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- Numerous examples of technologies and the open-source user and developer communities that support them
  - Instructions on how to take advantage of digital design sharing
  - Explanations of Arduinos and RepRaps for scientific use
  - A detailed guide to open-source hardware licenses and basic principles of intellectual property

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