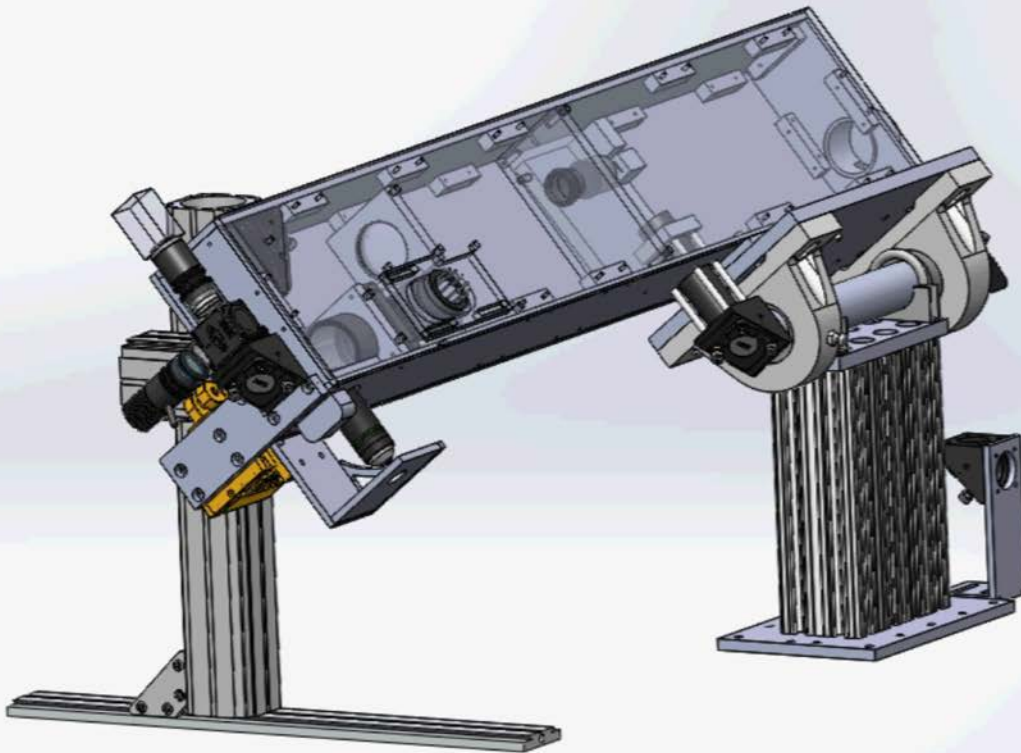


# Neurotechnology Core

You can't buy the bleeding edge.  
You have to make it.



Joel Greenwood Ph.D.

Director of Neurotechnology

Department of Neuroscience, Yale University School of Medicine

Yale Day of Instrumentation • Jan 24<sup>th</sup> 2020



THE  
**KAVLI**  
FOUNDATION



Yale University  
School of Medicine

<https://medicine.yale.edu/neuroscience/kavli/research/neurocore.aspx>

Ceci n'est pas une machine shop





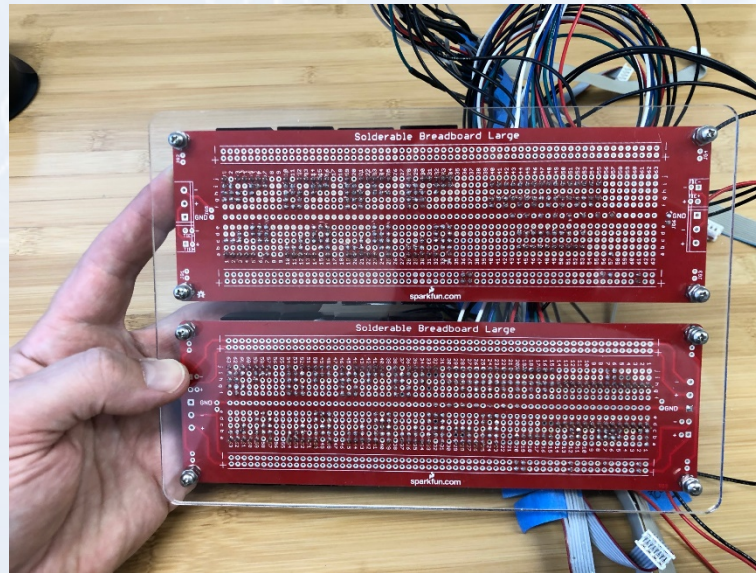
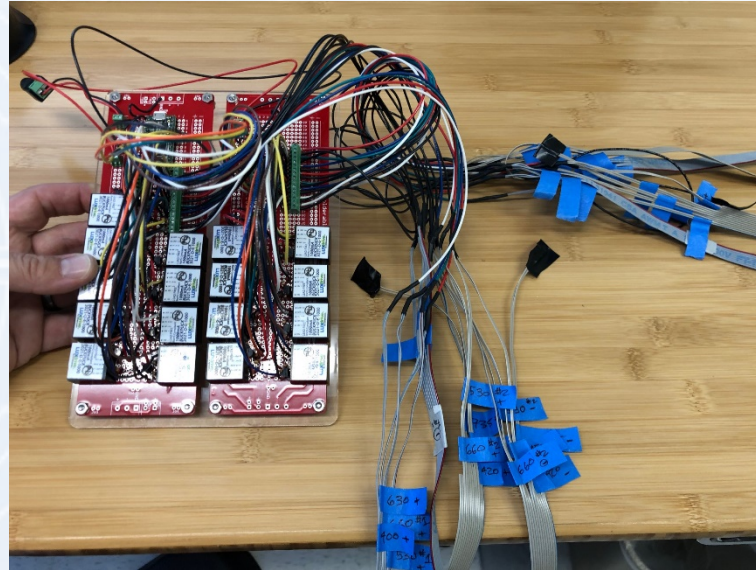


A **machine shop** is a room, building, or company where machining, a form of subtractive manufacturing, is done. (Wikipedia)

**Hackerspaces** are community-operated physical places, where people share their interest in tinkering with technology, meet and work on their projects, and learn from each other. (hackerspaces.org)



# Circadian rhythm light control chamber



Ann Feke  
Gendron Lab



Instrumentation Design

Experimental Design



# Neurotechnology Core Grand Opening!

How will you use 50,000 pounds  
of new, high-tech equipment?



**Join us to find out!**

Friday, January 10, 2020

3:30-6:00 PM

350 George Street main entrance

Follow signs to Neurotechnology Core

**Food and beverages will be served!**

## Come talk to me about Neurotechnology hacking

Software

Electronics

Mechanical Design and Fabrication

Computer Aided Design (CAD)

Computer Aided Machining (CAM)

Systems Integration

experimental design  $\Leftrightarrow$  hardware  $\Leftrightarrow$  software

data collection  $\Leftrightarrow$  data analysis

Optics

Multi-Photon Microscope Design and Fabrication

Epifluorescent Microscope Design, Fabrication and Automation

Electrophysiology

Optogenetics

Animal Behavior Rigs from Worms to Humans