Semiconductor neural engineering is a discipline that uses semiconductor process/device/circuit technologies to further understand the properties of neural systems and to create novel fusion systems of living body and machine. One of the goals in this laboratory is to establish semiconductor neural engineering and develop biomedical micro/nano integrated systems. Another goal is to educate the next generation of leaders in biomedical engineering through research including:

1. Intelligent Si neural probe and brain-machine interface
2. Fully-implantable retinal prosthesis system
3. Self-assembly technology and high-performance flexible sensor
4. 3D integration technology and analog/digital IC design

* Please contact us if you want to visit our lab.