

GIANTFab External Services Price List

GIANTFab is pleased to offer a mail-in service for researchers who cannot or do not want to travel to Northwestern to use our facility. Researchers can send fully fabricated devices to be tested in our glovebox, or simply send active layer materials to be fabricated into devices and tested in our completely oxygen- and water-free environment. Testing devices as-fabricated, without the possibility of environmental degradation, provides the best possible values for fill factor, efficiency, and external quantum efficiency. Some devices with very sensitive active layer materials simply cannot be tested outside of the inert environment.

As a service to the community during the COVID-19 pandemic, we are providing our mail-in service at the same price as user-performed experiments, plus a 1-hour consultation charge for new projects. Additional devices or samples fabricated and tested using previously agreed-upon protocols will not be charged a consultation fee. Our price list for some of the most common services is below, but we are able to customize our services to meet the needs of your project. Use the form below to contact us about your experimental needs and to get started!

Fabrication and testing is charged on a time and materials basis. Estimated materials costs, instrument time, and operator time for a batch of nine 25 × 25 mm substrates are below:

	Materials	Instrument Time \$40/hour internal \$65/hour external academic \$100/hour external commercial	Operator Time \$100/hour internal \$160/hour external academic \$200/hour external commercial
Initial project consultation			1 hour
Substrate	\$5 each		
ZnO layer	\$5	½ hour	No charge in FY2021
PEDOT:PSS layer	\$5	½ hour	No charge in FY2021
Active layer	User provided	1 hour	No charge in FY2021
MoO₃ layer	\$5	1 hour	No charge in FY2021
LiF later	\$5	1 hour	No charge in FY2021
Al layer	\$20	1 hour (½ hour if deposited immediately following LiF layer)	No charge in FY2021
Ag layer	\$10	1 hour (½ hour if deposited immediately following MoO ₃ layer)	No charge in FY2021
Au layer	\$100 (varies with current Au price)	1 hour	No charge in FY2021
C60 layer	\$20	1 hour	No charge in FY2021
Other organic deposition	Vendor cost	~1 hour, varies by material	No charge in FY2021
J-V testing		30 minutes per substrate	No charge in FY2021
EQE testing		30 minutes per substrate	No charge in FY2021
Conductivity testing		30 minutes per substrate	No charge in FY2021
Custom mask design	~\$200 for mask fabrication		1-4 hours depending on complexity
Custom testing jig design+fabrication	~\$150 for board and parts		4-16 hours depending on complexity