Institut interdisciplinaire d'innovation technologique UDS

PRICE LIST PLATEFORM 3IT.MICRO

This price list is valid from January 1 to December 31, 2025.
Rates may be subject to change.

ASSEMBLY, ENCAPSULATION AND PROTOTYPING

HOURLY SERVICE RATE	Academic rates[1]	Industrial rate[18]
Access rate to sector P2-1300-1302-1304-1308	20 $ / day	60 $ / day
Operator time	72 $ / h	110 $ / h
EQUIPMENT PRICES[2]	**Academic rates[1]**	**Industrial rate[18]**
Environmental chamber (AES SD-308) Drying oven (Despatch LAC2-18) Programmable drying oven (Heratherm OMH100)	10 $ / day	20 $ / day
PCB separator V-Grove (CAB Maestro 3E) PCB separator mouse bites (CAB Hektor 2)	5 $ / h	10 $ / h
EMI/EMC emissions inspection (EMSCAN EMxpert) 3D optical inspection (Caltex RX-100-BGA) Active probe 13 GHz (KEYSIGHT) Wide field 3D measurement system (Keyence VR-5000)	10 $ / h	20 $ / h
Convection oven for prototyping (LPKF ProtoFlow S)[3] UV lamp (Dymax BlueWave 200)	15 $ / h	30 $ / h
Ultrasonic bath (Bransonic CPX8800H)[4] Manual microassembly (Tresky T-3002-FC3) Thermocompression head (Finetech Pico MA)	20 $ / h	40 $ / h
Convection oven 8 zones (Heller 1826 MK5)[3,5] Automatic pick-and-place (MyData MY200LX) Thermocompression microassembly (Finetech Pico MA) Wire bonder (TPT HB10)[6] Heavy wire bonder (TPT HB30)[6] 13 GHz oscilloscope (Keysight MSO91304A)[11] Bondtester (Nordson DAGE 4000Plus) Manual paste printer (LPKF ProtoPrint S)[7] Function generator 25 GHz (KEYSIGHT M8195A) Hot Air rework station (Finetech Pico RS) Plasma treatment system (Diener PlasmaBeam)[8]	25 $ / h	50 $ / h
Automatic paste printer (DEK ASM-E)7	30 $ / h	60 $ / h

ASSEMBLY, ENCAPSULATION AND PROTOTYPING (Cont.)

EQUIPMENT PRICES[2]	Academic rates[1]	Industrial rate[18]
Laser micro-machining (LPKF ProtoLaser U3) Automated fluid deposition system (Nordson S-820)	35 $ / h	70 $ / h
Automated fluid deposition system (ESSEMTEC Tarantula)	40 $ / h	80 $ / h
3D PCB Printer (Nano Dimension DragonFLY IV)[9]	60 $ / h	120 $ / h
X-RAY inspection (NORDSON Quadra 5)	60 $ / h[11]	120 $ / h
Using the Complete Assembly Line	65 $ / h	130 $ / h
Automatic wire bonder (Hesse Mechatronics BJ855)[10]	100 $ / h[11]	200 $ / h
Automatic PCB washer (AAT Aqua ROSE-CL)		
Base fee per cleaning cycle[12]	70 $ / cycle	140 $ / cycle
Unit charge for each PCB or panel	10 $ / unit	20 $ / unit
9 GHz Spectrum analyser (Keysight N9935A FieldFox)[13]	7 $ / day	25 $ / day
FLAT RATES	**Academic rates[1]**	**Industrial rate[18]**
Paste printing and reflow service (manual assembly by the user)[14]		
Charges for 1 to 4 PCB panels with parts on one side only	164 $ / day	270 $ / day
Charges for 1 to 4 PCB panels with parts on both sides	266 $ / day	445 $ / day
TRAINING PRICES	**Academic rates[1]**	**Industrial rate[18]**
General Access Training - individual	20 $ / user	40 $ / user
General Access Training - group	5 $ / user	10 $ / user
Automatic wire bonder training (Hesse BJ855)[15]	200 $ / user	400 $ / user
MATERIAL PRICE	**Unit Price**	
Kapton in 12" x 12" sheet (thicknesses: 2, 3 and 5 mils)	45 $ / sheet	
FR4 (copper free) in 12" x 12" sheet (thicknesses: 31 and 62 mils)	23 $ / sheet	
FR4 (copper free) in 12" x 12" sheet (thicknesses: < 31 mils) *Single or double sided FR4 with 0.5 or 1 oz copper available on request.*	49 $ / sheet	
Stainless steel sheet in 8" x 12" (thicknesses: 1, 2, 3, 4 et 5 mils)	20 $ / sheet	
Dielectric ink (DI) for projects with 3D PCB printer (DragonFLY IV)	4 $ / ml	
Conductive ink (CI) for projects with 3D PCB printer (DragonFLY IV)	20 $ / ml	

FLUXES AND ADHESIVES AVAILABLE UPON REQUEST

Flux WS688, standard flux for no clean rework, Specialized epoxy glue (underfill, very liquid) (non-conductive Epotek 301-2), conductive epoxy glue (Epotek H20E and MicroCoat SD0802-31), non-conductive UV glue (Dymax 9309- SC), optical UV glue (Norland NOA 83H), instant glue (Loctite 401) and red glue for SMT assembly (Koki JU-R2S).

ELECTRONIC DESIGN, FPGA/SoC PROGRAMMING, EMBEDDED SOFTWARE DESIGN, TELECOMMUNICATIONS AND AI		
HOURLY SERVICE RATE	**Academic rates[1]**	**Industrial rate[18]**
Professional rate	82 $ / h	164 $ / h

TECHNICAL SUPPORT FOR RESEARCHERS		
HOURLY SERVICE RATE	**Academic rates[1]**	**Industrial rate[18]**
Professional rate	72 $ / h	110 $ / h

3IT-MICRO - SECTION Characterization by ionizing radiation		
HOURLY SERVICE RATE	**Academic rates[1]**	**Industrial rate[18]**
Operator rate	72 $ / h	110 $ / h
Professionnal rate	82 $ / h	164 $ / h
Lab Access rate	**Academic rates[1]**	**Industrial rate[18]**
Fee	7 $ / user	100 $ / user
EQUIPMENT PRICES[2]	**Academic rates[1]**	**Industrial rate[18]**
X-Ray source	n/a	100$ / h

ASSEMBLY AND SOLDERING		
DAILY RATE	**Academic rates[1]**	**Industrial rate[18]**
Access to the P2-1310, workstation rental and equipment rental[16]	7 $ / day	25 $ / day
MATERIAL PRICE	**Academic rates[1]**	**Industrial rate[18]**
Wire (6 AWG)[17]	10 $ / m	20 $ / m
Wire (others)[17]	.30 $ / m	.60 $ / m
Tweezer's kit	35 $ / kit	53 $ / kit

BILLING CONDITIONS

[1] An administrative fee of 15% applies to the total amount of the invoice for academics outside the Université de Sherbrooke.

[2] Equipment can be booked in 30-minute increments.

[3] The use of dry nitrogen in the equipment is available and is included in the rate.

[4] Cleaning with water or vigon.

[5] Requires a warm-up time of approximately 45 minutes.

[6] Basic consumables are included in the price. All other consumables specific to a project are at the user's expense. Specifications for wedges, capillaries and wires available can be supplied on request.

[7] Solder paste NO CLEAN high temperature SAC 305 (AIM M8-SAC305-25-J5) and low temperature (AIM NC273LT-SN42AG1BI57-38-J5) included in the price.

[8] 5N compressed gas for 4%H2-N2 and 3%H2-AR process.

[9] Dielectric (DI) ink and conductive ink (CI) are extra.

[10] Ball-Wedge BW01: 15 µm, 20 µm and 25 µm gold wires and compatible capillaries available to equipment users.
Wedge-Wedge DA06: 25 µm gold and aluminum wire available with standard wedge included.
Specifications for wedges, capillaries and wires can be supplied on request. All other consumables are at the user's expense.

[11] The pricing for this equipment is degressive for the academic community (UdeS and outside UdeS) and depends on the duration of continuous use of the devices. It is established as follows:
- 1 hour and less = 100% of the price;
- From 1 to 4 hours of continuous use = 60% of the rate;
- From 4 to 8 hours of continuous use = 30% of the rate;
- More than 8 hours of continuous use = 20% of the tariff.

It should be noted that the rate is reset at every reservations or for every day since a reservation cannot exceed 24 hours. Ex: 1 hr = $20, 3 hrs = $44, 6 hrs = $68, 9 hrs = $84, 12 hrs = $96 and 24 hrs = $144

[12] The rate includes DI water, operator time and LCSM access fees.

[13] Equivalent to the rate of $7 / day. The minimum bill is one day.

[14] The flat rate applies for each assembly day. Only operator time and time for screen printing and reflow equipment are included. Any material that does not comply with the equipment of the platform or any additional requests to what has been discussed beforehand could incur additional costs.

[15] Price for each 3 hour period of training (per user). 2 or 3 sessions may be required to complete the training depending on the user's needs. Possibility of working with the user's sample if adapted to the equipment.

[16] If the equipment is used in the P2-1310 directly, the price includes the rental of a workstation (equipment included) and consumables (tin, flux, etc.). If the equipment is borrowed and used elsewhere than at P2-1310, the daily rate applies per equipment borrowed. All equipment must be reserved. It is necessary to complete the loan form.
For example, if an oscilloscope and a power supply are borrowed for 7 days for an experiment at the P2-1310 lab, the bill will be 2 (equipment) x 7 days x $7/day = $98.

[17] Several types of single and multi-strand wires are available. It is mandatory to complete the yarn consumption form provided for this purpose.

[18] Industrial rates includes administrative fees.

In the event of non-payment of an invoice within three (3) months following its issuance date, a late payment fee of eighty-two dollars ($82.00 CAD) will be automatically added to said invoice. This fee will be applied cumulatively every three (3) months until the outstanding balance is paid in full.