

## Unit 8 - Micro/Nanoelectronics Unit

### Rates

The final price will be calculated for each project according to the processes and steps identified together with the technical coordinator. Some examples of some processes required to elaborate micro-devices with micro-electrodes in different substrates are:

	1 IMB-CNM	2 CIBER-BBN& UAB environment	3 External users
Design and Masks			
• Design	-	20€/h	60€/h
• Masks, depending on resolution:			
< 2 µm (Quartz/Chromium)	1000	1000	2000
3-10 µm (Quartz/Chromium)	500	500	1000
> 10 µm (High resolution transparency)	50	50	100
GLASS/PLATINIUM			
Glass devices with Platinum microelectrodes			
	900	1836	3636
Steps: Substract/metal 1/photolite/metal2/liftoff- attack/pasivation/photolite /RIE			
GLASS /GOLD			
Glass devices with Gold microelectrodes.			
Steps: Substract/metal /photolite/attack/pasivation/photolite/RIE	860	1755	3475

Si / SiC* PLATINIUM Si or SiC devices with Platinum microelectrodes.  Steps: Substract/Oxide/photolite/metal1/lift-off/pasivation/photolite/ RIE	875	1785	3535
Si / SiC* Gold Si or SiC devices with Gold microelectrodes.  Steps: Substract/Oxide/ metal /photolite/attack/pasivation/photolite/ RIE.	925	1887	3737

Considerations:

- The rates indicated are for the fabrication of 3 wafers maximum.
- IVA not included
- (\*) Because of the high Price of the SiC substract, the supplier will be specified.

The rates for the Carbon Nanotubes growth services by using the CVD Black Magic Pro 4-inch system are:

	1 IMB-CNM	2 CIBER-BBN& UAB environment	3 External users
Photoresin*	165	337	667
Sputtering (Niquel, Platinum)*	30 per wafer	61 per wafer	121 per wafer
Lift-Off*	102	209	412
Oxide thin film deposition *	40	82	162
Oxid film attack	75	153	303
CVD Black Magic pro 4-inch system	250€ per wafer	250€ per wafer	1010 per wafer

- (\*) Rates for 8 wafers maximum.
- IVA not included