

Platform	Services	Services / Equipment	Self-Service	Rates 2020*		
				Non-profit Organization	Profit-Making Organization	
Sample Fabrication Platform	Thin Film Growth	Clean Room access flat rate	Yes	32 €/day, max. 132 €/month (1575 €/year)	47 €/day, max. 179 €/month (2100 €/year)	
		UHV magnetron sputtering (ATC series AJA Sputtering System)	Yes	47 €	71 €	
		E-beam/thermal evaporation (UNIVEX 350 Oerlikon/EPVD75 Kurt J. Lesker)	Yes	34 €	52 €	
		Table top basic sputtering (Leica EM MED020/Quorum technologies Q150TES)	Yes	21 €/deposition	32 €/deposition	
		Atomic layer deposition (Cambridge Nanotech Savannah S100)	No	95 €	118 €	
	Nano-Structures Fabrication	E-beam lithography (Raith - I50-TWO / E-line)	No	76 €	95 €	
		FIB-FE(I)IBID (Dual beam FIB/SEM FEI Helios Nanolab / Helios 450S)	No	59 €	74 €	
		Direct Laser Writer - Lithography (µPG 101 Heidelberg)	Yes	42 €	63 €	
		Optical lithography (EVG Mask Aligner)	Yes	32 €	47 €	
	Sample Processing	Reactive ion etching (RIE Oxford Plasmalab 80 Plus)	Yes	47 €	71 €	
		Inductive coupled plasma Reactive ion etching (ICP-RIE Oxford PlasmaPro 100)	Yes	63 €	95 €	
		Ion milling (4wave)	Yes	47 €	71 €	
		Microscopy sample preparation	No	Under Request	Under Request	
	Others	Double Pack Oven 650 °C /Oven 1100 °C	Yes	8 €	13 €	
		Critical Point Dryer	Yes	26 €	39 €	
		Wetbenches for lithography processes (spin coaters, hot plates, ultrasonic baths)	Yes	Included in Clean Room flat rate 15 €	Included in Clean Room flat rate 22 €	
		Base, Acid and Solvent Wetbench (etching...)	Yes	Included in Clean Room flat rate 11 €	Included in Clean Room flat rate 16 €	
		Plasma Asher	Yes	Included in Clean Room flat rate 21 €	Included in Clean Room flat rate 32 €	
		Adhesion HDMY	Yes	Included in Clean Room flat rate 21 €	Included in Clean Room flat rate 32 €	
		Dicing Saw	No	21 €	32 €	
	Characterization Platform	Structural Characterization	X-ray reflectivity/diffractometry (X'pert PRO by PANalytical)	Yes	37 €	55 €
			SEM/eSEM (ESEM FEI Quanta 250)	Yes	32 €	42 €
			TEM (TEM FEI Titan)	No	119 €	158 €
High resolution atomic force microscopy (AFM 5500 Agilent)			Yes	42 €	53 €	
Basic atomic force microscopy (Nano observer CSI Instruments)			Yes	26 €	37 €	
Transmission Electron Microscopy images simulation and analysis			No	Under Request	Under Request	
Magnetic and Electrical Char.		Quantum Design PPMS	No	53 €	79 €	
		Lake Shore Probe Station	Yes	28 €	42 €	
Chemical Char.		Raman microscopy (Confocal RAMAN microscope Alpha 300R WiTec)	Yes	42 €	63 €	
		FTIR	Yes	32 €	47 €	
		Energy-dispersive X-ray (EDX) spectroscopy	No	32 €	47 €	
		SNOM / nanoFTIR	No	Under Request	Under Request	
		Electron energy loss spectroscopy (EELS)	No	Under Request	Under Request	
Others		Surface profilometry (Veeco Dektak 150 Surface Profiler)	Yes	Included in Clean Room flat rate 11 €	Included in Clean Room flat rate 16 €	
		Spectroscopic ellipsometry (GES5 spectroscopic-ellipsometer SEMILAB)	No	21 €	32 €	
		Optical Microscopes	Yes	Included in Clean Room flat rate 11 €	Included in Clean Room flat rate 16 €	
		Circular Dichroism (CD)	Yes	17 €	24 €	
		Microcalorimeter	Yes	13 €	19 €	
Labor		Lab Technician			42 €	78 €
		Specialist			58 €	105 €

* Fees per hour if not specified. Taxes not included.

Once the applicant has present the service request, nanoGUNE will prepare an official proposal taking into account the specific conditions to each work (number of samples, long measurments...). Special equipment fees could be offered.

Service mode: All services exclusively carried out by nanoGUNE personnel.

Labor Cost + System/hour Cost will be charged. A specific quote defining the work should be requested. The corresponding invoice will be generated subject to that quote.

Self-Service mode: Authorized users will have right of access to the nanoGUNE installations once they have passed the corresponding training (H&S and system training). Only System/hour cost will be charged (training Cost will be charged apart).