

Platform	Services	Services / Equipment	Self-Service	Rates 2022*	
				Non-profit Organization	Profit-Making Organization
Sample Fabrication Platform	Thin Film Growth	Clean Room access flat rate	Yes	35 €/day, max. 145 €/month (1733 €/year)	52 €/day, max. 197 €/month (2310 €/year)
		UHV magnetron sputtering (ATC series AJA Sputtering System)	Yes	52 €	78 €
		E-beam/thermal evaporation (UNIVEX 350 Oerlikon/EPVD75 Kurt J. Lesker)	Yes	38 €	57 €
		Table top basic sputtering (Leica EM MED020/Quorum technologies Q150TES)	Yes	23 €/deposition	35 €/deposition
		Atomic layer deposition (Cambridge Nanotech Savannah S100)	No	104 €	130 €
	Nano-Structures Fabrication	E-beam lithography (Raith -I50-TWO / E-line)	No	84 €	105 €
		FIB-FE(I)IBID (Dual beam FIB/SEM FEI Helios Nanolab / Helios 450S)	No	65 €	81 €
		Direct Laser Writer - Lithography (µPG 101 Heidelberg)	Yes	46 €	69 €
		Optical lithography (EVG Mask Aligner)	Yes	35 €	52 €
	Sample Processing	Reactive ion etching (RIE Oxford Plasmalab 80 Plus)	Yes	52 €	78 €
		Inductive coupled plasma Reactive ion etching (ICP-RIE Oxford PlasmaPro 100)	Yes	69 €	105 €
		Ion milling (4wave)	Yes	52 €	78 €
		Microscopy sample preparation	No	Under Request	Under Request
	Others	Double Pack Oven 650 °C /Oven 1100 °C	Yes	9 €	14 €
		Critical Point Dryer	Yes	29 €	43 €
		Wetbenches for lithography processes (spin coaters, hot plates, ultrasonic baths) -Included in Clean Room flat rate-	Yes	17 €	24 €
		Base, Acid and Solvent Wetbench (etching...) -Included in Clean Room flat rate-	Yes	12 €	18 €
		Plasma Asher - -Included in Clean Room flat rate-	Yes	23 €	35 €
		Adhesion HDMY -Included in Clean Room flat rate-	Yes	23 €	35 €
		Dicing Saw	No	23 €	35 €
	Characterization Platform	Structural Characterization	X-ray reflectivity/diffractometry (X'pert PRO by PANalytical)	Yes	40 €
SEM/eSEM (ESEM FEI Quanta 250)			Yes	35 €	46 €
TEM (TEM FEI Titan)			No	131 €	173 €
High resolution atomic force microscopy (AFM 5500 Agilent)			Yes	46 €	58 €
Basic atomic force microscopy (Nano observer CSI Instruments)			Yes	29 €	40 €
Transmission Electron Microscopy images simulation and analysis			No	Under Request	Under Request
Magnetic and Electrical Char.		Quantum Design PPMS	No	58 €	87 €
		Lake Shore Probe Station	Yes	31 €	46 €
Chemical Char.		Raman microscopy (Confocal RAMAN microscope Alpha 300R WiTec)	Yes	46 €	69 €
		Energy-dispersive X-ray (EDX) spectroscopy	No	35 €	52 €
		FTIR	Yes	35 €	52 €
		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) - Included in Clean Room flat rate-	Yes	12 €	18 €
		Spectroscopic ellipsometry (GES5 spectroscopic-ellipsometer SEMILAB)	No	23 €	35 €
		Optical Microscopes -Included in Clean Room flat rate-	Yes	12 €	18 €
		Circular Dichroism (CD)	Yes	18 €	27 €
		Microcalorimeter	Yes	14 €	21 €
Labor		Lab Technician		46 €	85 €
		Specialist		64 €	116 €

* 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 measurements...). 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).