

		SERVICES Rates 2024*		
Platform	Services	Services / Equipment	Non-profit Organization (IP belongs to the customer)	Profit-Making Organization (IP belongs to the customer)
Sample Fabrication Platform	Thin Film Growth	Clean Room access flat rate	35 €/day, max. 145 €/month (1733 €/year)	52 €/day, max. 197 €/month (2310 €/year)
		UHV magnetron sputtering (ATC series AJA Sputtering System)	52 €	78 €
		E-beam/thermal evaporation (UNIVEX 350 Oerlikon/EPVD75 Kurt J. Lesker)	38 €	57 €
		Table top basic sputtering (Leica EM MED020/Quorum technologies Q150TES)	23 €/deposition	35 €/deposition
		Atomic layer deposition (Cambridge Nanotech Savannah S100)	104 €	130 €
	Nano-Structures Fabrication	E-beam lithography (Raith - I50-TWO / E-line)	84 €	105 €
		FIB-FE(I)BID (Dual beam FIB/SEM FEI Helios Nanolab / Helios 450S)	65 €	81 €
		Cryo FIB / HRSEM (Tescan)	98 €	119 €
		Direct Laser Writer - Lithography (µPG 101 Heidelberg)	46 €	69 €
		Optical lithography (EVG Mask Aligner)	35 €	52 €
		Electrospinning Novaspider	35 €	46 €
	Sample Processing	Reactive ion etching (RIE Oxford Plasmalab 80 Plus)	52 €	78 €
		Inductive coupled plasma Reactive ion etching (ICP-RIE Oxford PlasmaPro 100)	69 €	105 €
		Ion milling (4wave)	52 €	78 €
		Microscopy sample preparation	Under Request	Under Request
	Others	Double Pack Oven 650 °C /Oven 1100 °C	9 €	14 €
		Critical Point Dryer	29 €	43 €
		Wetbenches for lithography processes (spin coaters, hot plates, ultrasonic baths) -Included in Clean Room flat rate-	17 €	24 €
		Base, Acid and Solvent Wetbench (etching...) -Included in Clean Room flat rate-	12 €	18 €
		Plasma Asher - -Included in Clean Room flat rate-	23 €	35 €
		Adhesion HDMY -Included in Clean Room flat rate-	23 €	35 €
		Dicing Saw	23 €	35 €
	Characterization Platform	Structural Characterization	X-ray reflectivity/diffractometry (X'pert PRO by PANalytical)	40 €
SEM/eSEM (ESEM FEI Quanta 250)			35 €	46 €
TEM (TEM FEI Titan)			131 €	173 €
High resolution atomic force microscopy (AFM 5500 Agilent)			46 €	58 €
Basic atomic force microscopy (Nano observer CSI Instruments)			29 €	40 €
Transmission Electron Microscopy images simulation and analysis			Under Request	Under Request
Magnetic and Electrical Char.		Quantum Design PPMS	58 €	87 €
		Lake Shore Probe Station	31 €	46 €
Chemical Char.		Raman microscopy (Confocal RAMAN microscope Alpha 300R WiTec)	46 €	69 €
		Energy-dispersive X-ray (EDX) spectroscopy	35 €	52 €
		FTIR	35 €	52 €
		SNOM / nanoFTIR	Under Request	Under Request
		Electron energy loss spectroscopy (EELS)	Under Request	Under Request
Others		Surface profilometry (Veeco Dektak 150 Surface Profiler) - Included in Clean Room flat rate-	12 €	18 €
		Spectroscopic ellipsometry (GES5 spectroscopic-ellipsometer SEMILAB)	23 €	35 €
		Optical Microscopes -Included in Clean Room flat rate-	12 €	18 €
		Circular Dichroism (CD)	18 €	27 €
		Microcalorimeter	14 €	21 €
Services Labor		Lab Technician	46 €	90 €
		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).