SERVEIS TÈCNICS DE RECERCA

The current reference document can be consulted in this link: UdG budget 2025

Description of the service	Article code	Billable unit	Minimum and billable slots	A	B	C	D	E	F
				euros	euros	euros	euros	euros	euros
CHEMICAL and STRUCTURAL ANALYSIS UNIT (UAQiE)									
Technical staff	AQHTxx	hour	0,25	31,39	60,72	80,96	31,39	72,86	68,82
Elemental Analysis (CHNS)									
Combustion elemental analysis (CHNS)	AQCRAE	sample	1	17,61	37,28	46,60	20,71	41,94	39,61
Magnetic Resonance									
Nuclear Magnetic Resonance (RMN)	AQHRMN	hour	0,25	3,66	23,88	29,69	4,30	26,73	25,24
Nuclear Magnetic Resonance (RMN) (night and weekend)	AQBRMN	hour	0,25	2,76	9,10	11,37	3,25	10,24	9,67
Microwave digestion									
Microwave digestion (It doesn't include acids or other reagents)	AQPRMW	process	1	29,36	69,08	69,08	34,54	62,18	58,72
Inductive Coupling Plasma (ICP)									
Inductive Coupling Plasma (ICP-MS)	AQHICPM	hour	0,5	20,12	88,76	124,27	23,67	111,84	105,63
Inductive Coupling Plasma (ICP-OES)	AQHICPO	hour	0,5	60,36	90,53	91,42	71,01	82,28	77,71
X-ray diffraction									
X-ray diffraction - powder	AQDRXP	hour	1	1,84	8,66	17,33	2,17	15,60	14,73
X-ray diffraction - single crystal (Doesn't include lN2)	AQDRXM	hour	1	19,62	34,61	46,15	23,08	41,54	39,23
ENVIRONMENTAL ENGINEERING UNIT (UEA)									
Technical staff	EAHTxx	hour	0,25	31,39	60,72	80,96	31,39	72,86	68,82
Total Organic Carbon, Inorganic Carbon and Total Carbon Analyzer									
Determination of TOC/IC o NPOC	EATOC1	sample	1	14,66	56,91	56,91	17,25	51,22	48,38
Ion Chromatography									
Determination of cations	EACI01	sample	1	6,35	22,41	37,35	7,47	33,62	31,75
Determination of anions	EACI02	sample	1	4,60	12,44	20,82	5,41	18,74	17,70
Determination of anions and cations	EACI03	sample	1	10,10	32,69	44,58	11,89	40,12	37,89
Determination of sugars	EACI04	sample	1	10,08	23,72	29,65	11,86	26,68	25,20
Gas chromatography									
Determination of volatile fatty acids and alcohols	EAFID1	sample	1	4,04	23,76	29,70	4,75	26,73	25,25
Determination of N2, CO, CO2, CH4, H2 i O2	EATCD1	sample	1	3,02	19,53	24,85	3,55	22,37	21,12
Gas chromatography FID-TCD2-autosampler	EAFID2	hour	0,25	5,95	32,18	40,58	7,00	36,52	34,49
Gas chromatography FID-TCD2-manual	EAFID3	hour	0,25	5,52	30,87	38,34	6,50	34,51	32,59
Lyophilizer									
Lyophilization	EAFD01	day	1	3,14	12,02	49,95	3,70	44,95	42,46
HPLC-DAD									
HPLC with DAD detector	EAHDAD	dia	1	-	350,00	350,00	-	315,00	304,35
MASS SPECTROMETRY UNITS (UEM)									
Technical staff	MEHTxx	hour	0,25	31,39	60,72	80,96	31,39	72,86	68,82
Gas chromatography									
Gas chromatograph - MS Electronic Impact	MEGCEI	hour	0,25	10,07	83,74	83,74	11,84	75,37	71,18
Gas chromatograph - MS Chemical ionitzation	MEGCCI	hour	0,25	10,59	85,38	85,38	12,46	76,84	72,57
Mass spectrometry									
Mass spectrometry QTOF	MEQTOF	sample	1,00	3,10	47,85	117,62	3,65	105,86	99,98
Mass spectrometry QTOF amb crioesprai	MECRIO	hour	0,25	6,32	106,54	212,12	7,43	190,90	180,30
Mass spectrometry MALDI-TOF - Determination of de masses moleculars	MEMTOF	hour	1	152,60	359,06	394,96	179,53	355,47	335,72
Infrared Spectroscopy									
Infrared Spectroscopy, FTIR-ATR	MEFTIR	sample	0,25	1,85	10,13	15,08	2,18	13,57	12,81
HPLC-Mass Spectrometry									
HPLC-Mass Spectrometry injection by column	MEICOT	hour	0,25	25,05	94,79	179,65	29,47	161,68	152,70
HPLC-Masses direct injection	MEIDIT	sample	1,00	10,93	36,80	68,06	12,86	61,26	57,85
MICROSCOPE and BIOTECHNOLOGY UNIT (UMiB)									
Technical staff	MBHTxx	hour	0,5	31,39	60,72	80,96	31,39	72,86	68,82
Electron Microscopy									
Field Emission Scanning Electron Microscope (TESCAN Clara)	MBETES	hour	0,5	93,63	110,16	110,16	110,16	99,14	93,63
Field Emission Scanning Electron Microscope (FE-SEM)	MBEHIR	hour	0,5	14,96	44,00	74,80	17,60	67,32	63,58
Ultramicrotomy									
Ultramicrotomy - Semi-thin cuts	MBLU1S	1 block	1	12,62	77,93	100,20	14,84	90,18	85,17
Ultramicrotomy - Ultra-thin cuts	MBLU2U	1 block	1	24,54	93,82	101,03	28,87	90,93	85,88
Sample preparation techniques									
Glutaraldehyde fixation	MBLABA	ml gluta 25%	1ml	1,17	6,89	8,61	1,38	7,75	7,32
Postfixation with OsO4	MBLABB	ml OsO4 2%	1ml	12,24	27,35	32,39	14,40	29,15	27,53
Dehydration with ethanol or acetone	MBLABC	process	1	6,23	20,16	25,66	7,33	23,10	21,81
Spurr resin inclusion	MBLABD	process	26grNSA	56,26	105,89	132,37	66,18	119,13	112,51
Contrast of thin cuts	MBLU3C	process	1	3,05	15,23	17,02	3,58	15,32	14,47
Negative staining	MBLU6T	process	1	1,62	24,77	30,96	1,91	27,86	26,31
Critical Point Drying (CPD)	MBLABE	process	1	10,42	39,85	45,98	12,26	41,38	39,08
Assembly on MER sample holder	MBLABF	stub	1	2,38	7,70	10,51	2,80	9,46	8,93
Coating with C	MBLABH	process	1	3,57	12,60	16,80	4,20	15,12	14,28

Cu grids with Formvar/C membrane	MBLU4C	grid	1	2,51	3,54	4,43	2,95	3,99	3,76
Axon resin inclusion	MBTIAX	sample	1	2,73	8,84	11,25	3,21	10,13	9,56
Sample polish	MBTIPM	sample	1	17,68	33,28	41,60	20,80	37,44	35,36
Grinding with an oscillating ball mill RESTCH MM200	MBTMBO	sample	1	0,32	9,05	9,05	0,38	8,14	7,69
Determination of fiber density and volume in test tubes reïna-fibra de carboni	MBZVFC	sample	1	3,39	116,72	146,65	3,99	131,99	124,66
Classic Optical Microscopy									
Direct optical microscope Leica DMR-XA	MBOLDI	hour	0,5	3,79	26,75	36,77	4,46	33,10	31,26
Direct optical microscope Leica DMR-XA epifluorescence	MBOLEF	hour	0,5	13,05	34,55	43,00	15,36	38,70	36,55
Stereoscopic optical microscope Zeiss StereoDiscovery V12	MBOZST	hour	0,5	2,09	22,79	32,64	2,46	29,38	27,74
Confocal Spectral Laser Optical Microscopy (CLSM) and structured illumination microscopy (SIM)									
Inverted optical microscope NIKON Eclipse Ti-E + Spectral confocal NIKON A1R	MBONC1	hour	0,5	8,34	58,90	72,64	9,82	65,38	61,75
THERMAL ANALYSIS UNIT (UAT)									
Technical staff	ATHTxx	hour	0,25	31,39	60,72	80,96	31,39	72,86	68,82
Differential Scanning Calorimetry									
Differential Scanning Calorimetry. Q2000	ATDSCT	hour	0,5	10,82	38,17	47,72	12,72	42,95	40,56
Differential Scanning Calorimetry. DSC 822	ATDSCM	hour		2,72	31,98	39,98	3,20	35,98	33,98
Rheometry									
Rheometry	ATREOM	hour	0,5	7,63	12,57	24,69	8,98	22,22	20,98
DSC, TGA, TMA									
Setsys Analysis	ATSETS	hour	0,5	5,73	6,74	11,79	6,74	10,61	10,02
Dynamomechanical analysis									
Dynamomechanical Analysis (DMA)	ATDMAM	hour	0,5	6,06	16,04	32,09	7,13	28,88	27,28
Thermogravimetric Analysis									
Thermogravimetric Analysis	ATTGAM	hour	0,5	2,23	35,44	35,44	2,63	31,90	30,13
Dilatometry									
Dilatometry	ATDILN	hour	0,5	73,87	86,91	86,91	86,91	78,22	73,87
SUBMARINE TECHNOLOGY UNIT (UTS)									
Technical staff	TSHTxx	hour	0,5	31,39	60,72	80,96	31,39	72,86	68,82
Sextant Ship	TSEMB1	hour	1	18,41	37,90	43,32	21,66	38,98	36,82
Sextant II Ship	TSEMB2	hour	1	36,22	51,13	59,66	42,61	53,69	50,71
GPS RTK	TSGPS1	day	1	1,12	24,73	27,04	1,32	24,33	22,98
Submarine positioning and underwater communication system	TSSPS1	day	1	1,08	53,17	59,85	1,27	53,87	50,88
Multibeam sonar	TSSOMR	day	1	3,92	62,32	62,32	4,62	56,09	52,97
Experimentation tank	TSTEX	hour	1	2,26	13,93	15,26	2,65	13,74	12,97
Hyperbaric chamber	TSCHI	hour	1	4,35	29,45	35,86	5,12	32,27	30,48
GENERAL LABORATORY (LG)									
Cryogenics - Liquid nitrogen supply									
Containerized supply - self service	LGCRI1	liter	25	0,61	1,78	2,14	0,71	1,92	1,82
TOMOGRAPHY									
Technical staff	TOMHTxx	hour	0,5	31,39	60,72	80,96	31,39	72,86	68,82
Tomography / X-ray radiography equipment time	TOMHR	hour	0,5	69,84	197,19	246,49	82,16	221,84	209,51
Tomography reconstruction	TOMRC	unit	1	35,01	164,73	205,92	41,18	185,33	175,03
Tomographic image processing	TOMPI	hour	0,5	40,43	166,48	214,04	47,56	192,64	181,94
Sample preparation with penetrant liquids	TOMPM	sample	1	55,91	164,44	197,32	65,77	177,59	167,72
Mechanical tests equipment time	CRIOAM	hour	1	55,54	130,68	163,36	65,34	147,02	138,85
Instrumentation at standard conditions	CRIOCE	unit	1	60,86	143,19	178,99	71,59	161,09	152,14
Hours of cryostat equipment	CRIOEC	hour	1	31,94	75,16	75,16	37,58	67,64	63,88
Hours of immersion equipment	CRIOEI	hour	1	47,56	111,91	139,88	55,95	125,90	118,90
Postprocessing	CRIOPP	hour	1	31,39	73,86	92,33	36,93	83,09	78,48
Instrumentation at low temperatures	CRIOTB	unit	1	116,99	275,27	344,08	137,63	309,68	292,47

Criteria for applying STR rates:

1. Tariff category A applies to UdG users.
2. Tariff category B applies to non-profit Public Research Organizations (OPI) that have reciprocity agreements with the UdG.
3. Tariff category C applies to other public organizations, private companies, and particulars.
4. Under the agreements in force, the research centers participated by the UdG (tariff category D) and the member companies of the EPS board (tariff category E) will enjoy the agreed discounts.
5. To tariff categories B, C, D, E, and F, the VAT in force at the date of issue of the invoice will be applied
6. When a UdG User carries out a work assignment for a third party, rate category F will apply.
7. For the services that can be provided and aren't charged, they will be calculated in technician hours + cost of materials.
8. Materials according to cost.
9. All requests for services will have a prior budget.