

The rates shown below are an extract from Annex III. Budget Rates for the year 2018 of the University of Sevilla. This can be consulted in its full version at the following link:
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LIST OF PUBLIC PRICES (2018)

X-RAY LABORATORY RESEARCH SERVICE

CONCEPT AND € PRICES	US	RPO	PRI
CHEMICAL ANALYSIS BY X-RAY FLUORESCENCE (AXIOS)			
Majority elements determination by XRF, per sample	10,00	37,00	72,00
Trace elements determination by XRF, per sample	13,75	43,25	84,50
Majority and trace element, pressed powder in boric acid, 10 mm diameter (inc. sample preparation)	14,25	45,75	89,50
Majority and trace element, pressed powder in boric acid, 10 mm diameter (without sample preparation)	5,25	26,25	52,50
XRF general semiquantitative analysis per sample ($\varnothing > 25$ mm)	2,50	12,50	25,00
XRF general semiquantitative analysis per sample ($\varnothing = 20$ mm)	3,80	19,00	38,00
XRF general semiquantitative analysis per sample ($\varnothing = 10$ mm)	4,20	21,00	42,00
XRF general semiquantitative analysis per sample ($\varnothing = 6$ mm)	4,75	23,75	47,50
XRF analysis of the maximum intensity peak of a particular element	2,00	10,00	20,00
X-RAY MICROFLUORESCENCE			
X-ray microfluorescence operated by the user, per hour	10,00	50,00	100,00
X-ray microfluorescence operated by the technician, per hour	20,00	100,00	To agree
X-RAY DIFFRACTION (POWDER METHOD, STUDY OF SURFACES AND LAYERS)			
Use of diffractometer with sample exchanger (D8I-90) and Lynxeye detector, per hour	55,00	275,00	To agree
Use of diffractometer with sample exchanger (D8I-90) and scintillation detector, per hour	5,50	27,50	To agree
Use of diffractometer with environmental chambers (D8C and DISCOVER II), per hour	8,00	40,00	To agree
Use of diffractometer with environmental chambers (D8C and DISCOVER II) (a), per hour	80,00	400,00	To agree
Use of diffractometer with EULER cradle (DISCOVER), per hour	15,00	75,00	To agree
Use of diffractometer with EULER cradle (DISCOVER) (a), per day	150,00	750,00	To agree
Other measurements and analyses	To be agreed upon		
X-RAY DIFFRACTION (SINGLE CRYSTAL)			
Preliminary study (per simple)	1,50	7,50	15,00
Full day of data collection for structural resolution (a)	100,00	To agree	To agree
Hour of data collection for structural resolution	10,00	50,00	100,00
N2 for low temperature measurements (per hour)	1,00	1,00	1,00
N2 for low temperature measurements (per day)	20,00	20,00	20,00
Structure resolution (per sample)	To be agreed upon		
Use of our databases, per hour	To be agreed upon		
Other measurements and analyses	To be agreed upon		

University of Sevilla (US), Research Public Organism (RPO) and Private entity (PRI)

(a) Depending on the availability of the laboratory.

(b) Prices do not include sample preparation (digestion, leaching, etc.), except the addition of the internal standard and dilution where specified.

(c) It includes qualitative analysis, 1 dilution, addition of 1 or 2 internal standards and measurement of a replica of 500 s for the equipment with Mo tube and 2000 s for the tube of W.

(d) It includes qualitative analysis, 2 dilutions, addition of 1 or 2 internal standards and measurements of two replicas of 500 s for the equipment with Mo tube and 2000 s for the tube of W.

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TXRF			
TXRF qualitative analysis with Mo tube (200 s) (b)	5,00	25,00	50,00
TXRF qualitative analysis with W tube (800 s) (b)	10,00	50,00	100,00
TXRF semi-quantitative analysis with Mo tube (b,c)	15,00	75,00	150,00
TXRF semi-quantitative analysis with W tube (b,c)	30,00	150,00	300,00
TXRF quantitative analysis with Mo tube (b)(d)	25,00	125,00	250,00
TXRF quantitative analysis with W tube (b)(d)	50,00	250,00	500,00
Hour of TXRF analysis with Mo tube (b)	90,00	450,00	900,00
Hour of TXRF analysis with W tube (b)	45,00	225,00	450,00
Analysis as required by TXRF	To be agreed upon		
COMPUTERIZED TOMOGRAPHY			
Acquisition of 2D data by the user	10,00	50,00	To agree
Acquisition of 2D data by the technician	20,00	100,00	To agree
Acquisition of 3D data by the user	10,00	50,00	To agree
Acquisition of 3D data by the technician	20,00	100,00	To agree
Usage of AVIZO image analysis software by the user, per hour	2,50	12,50	To agree
Usage of VG reconstruction software by the user, per hour	10,00	50,00	To agree
TREATMENT OF SAMPLES			
Grinding	7,50	37,50	75,00
Preparation of pressed powders for XRF	9,00	19,50	37,00
Preparation of beads for XRF	8,00	27,00	52,00
Use of the uniaxial press (per sample)	0,75	3,75	7,50
Preparation of oriented aggregates for XRD	20,00	50,00	100,00
Clay sample preparation – extraction of the <2µm fraction	To be agreed upon		
Preparation of capillaries for XRD	2,10	10,50	21,00
Sample preparation for microdiffraction	2,10	10,50	21,00
TXRF samples preparation	To be agreed upon		
MATERIAL			
Capillaries for XRD (unit price)	7,00	7,00	7,00
Single crystal Micromount of 100 µm, 50 µm and 20 µm (unit price)	20,00	20,00	20,00
Magnetic base for Micromount (unit price)	50,00	50,00	50,00
INTERPRETATION OF RESULTS			
Hour of interpretation of results	20,00	100,00	To agree

RATES COMMON TO ALL RESEARCH GENERAL SERVICES:

Official report from our lab	160,00	200,00	240,00
Training by our technicians, per hour	6,00	50,00	100,00
Technical support, other concepts, per hour.	20,00	50,00	100,00
Sample registration, storage, traceability protocols, etc. per group of samples	70,00	85,00	100,00

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