



Research projects carried out within the C12 Research Center (2015 – 2026)

National research projects

No. Crt.	Project type	Project no.	Project title	Director/ UNITBV	Duration	Total value RON	Val. UNITBV RON
1	PN-II-RU-TE	349/2015	POLYOLEFINS AND CALCITE WASTES RECYCLING BY OBTAINING NEW COMPOSITE MATERIALS	CROITORU CATALIN	2015-2017	549999	549999
2	PNII- Partnership	188/02.07.2012	PERFORMANT MATERIALS AND TECHNOLOGIES DESIGNED FOR ACHIEVING ASPHALT MILLING TOOLS - MATFREZ	IOVANAS DANIELA	2012 - 2015	2410000	350000.00

International research projects

No. Crt.	Project type	Project title	Director/ UNITBV	Duration	Value tot. EUR	Value UNITBV EUR
1.	ERASMUS+ KA220-HED, Cooperation Partnerships in Higher Education, Project No. 2023-1-RO01-KA220-HED- 000159985	SMART HEALTHCARE ENGINEERING	Pascu Alexandru	2023 – 2026	400,000	97,000
2.	SFERA, SFERA-III Transnational Access Programme SURPF2001310056	SHORT-TERM EXPOSURE OF ALUMINIUM COATINGS TO CONCENTRATED SIMULATED SOLAR FLUX. DLR, JÜLICH, GERMANY.	Roata Ionut Claudiu	2023	10,000	
3.	SFERA, SFERA-III Transnational Access Programme SURPF2301270005	PSGAGE. PHOSPHATE SOLAR GLASSES ACCELERATED AGEING AND TESTING. COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES (CEA), LE BOURGET- DU-LAC, FRANTA.	Cătălin Croitoru	2023	10,000	
4.	SFERA, SFERA-III Transnational Access Programme SURPF2001170003	CORROSION RESISTANCE OF NICRALX COATED MATERIALS IN MOLTEN NANO3/KNO3 SALT MIXTURE. ENEA – C.R. CASACCIA, ROMA, ITALIA.	Roata Ionut Claudiu	2022	10,000	
5.	SFERA, SFERA-III Transnational Access Programme SURPF2001300029	METAL ALLOYS AND COATINGS VIA CONCENTRATED SOLAR ENERGY. CNRS-PROMES, ODEILO-FONT ROMEU, FRANTA.	Cătălin Croitoru	2022	10,000	

6.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 3)	CORROSION AND WEAR RESISTANT COATINGS FOR AL PARTS USED FOR AEROSPACE APPLICATIONS	LUCA MIHAI ALEXANDRU	2019	10,000	
7.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 3)	SOLAR SYNTHESIS OF FUNCTIONAL CARBONACEOUS UNDER CONSTANT ELECTRIC CHARGE	STANCIU ELENA	2019	10,000	
8.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	IMPROVEMENT OF MDF CEMENTS PROPERTIES THROUGH METALLIC OXIDE COATING USING SOLAR ENERGY	BALTES LIANA SANDA	2016	10,000	
9.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	VACUUM BRAZING OF STAINLESS STEELS AND COPPER USING THE SOLAR RADIATION AS ENERGY SOURCE	LUCA MIHAI ALEXANDRU	2016	5,410	
10.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	SYNTHESIS OF CARBON NANOTUBES USING SOLAR RADIATION AND Al_2O_3 -Mn/Cu $2O$ CATALYST	PASCU ALEXANDRU	2016	7,300	
11.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	Al_2O_3/TiO_2 CLADDING IN PRE-PLACED POWDER GEOMETRY USING CONCENTRATED SOLAR RADIATION	PASCU ALEXANDRU	2017	10,281	
12.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	CORROSION IMPROVEMENT OF FeCrAl ALLOYS DESIGNED FOR MOLTEN SALT REACTORS	PASCU ALEXANDRU	2017	8,000	
13.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	CORROSION AND WEAR BEHAVIOR OF NiCrBSi COATINGS FABRICATED BY LASER CLADDING	STANCIU ELENA MANUELA	2016	10,000	
14.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	RESEARCHES REGARDING THE INFLUENCE OF THE HEAT TREATMENTS WITH SOLAR ENERGY ON THE ALLOY STEELS PROPERTIES	CATANA DORIN	2015	6,233	
15.	European Research Infrastructure FP7-INFRASTRUCTURES-2011-1	HYDROGEN STORAGE PERFORMANCE OF IONIC LIQUID-IMPREGNATED AEROGELS	CROITORU CATALIN	2015	8,000	
16.	EU-DG RTD Solar Facilities for the European Research Area (SFERA)	RESIDUAL STRESS RELIEVE OF Ni BASED COATINGS FABRICATED BY LASER CLADDING	PASCU ALEXANDRU	2015	11,000	

17.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	MECHANICAL PROPERTIES IMPROVEMENT OF CU10AL LASER CLADDED ON ALUMINUM	ROATA IONUT CLAUDIU	2014	13,800	
18.	EU-DG RTD Solar Facilities for the European Research Area (SFERA 2)	IMPROVEMENT OF ELECTRIC CONTACTS CORROSION RESISTANCE	ROATA IONUT CLAUDIU	2014	13,700	

National and international projects carried out in collaboration with the socio-economic environment

Contract no.	Project title	Coordinator	Beneficiary	Total value (TVA incl., RON)	Duration
7708 / 2021	PROIECTAREA TEHNOLOGIEI DE SUDARE PENTRU CONSOLIDAREA STRUCTURII CICLOANELOR TREAPTA IV - SCHIMBĂTOR DE CALDURĂ DIN INCINTĂ	Roată Ionut	CRH Hoghiz	2500	2021
Nr 416-SP1/ 17.10.2022	PASARELĂ METALICĂ LA CORP AMBULATOR MATERNITATEA BRAȘOV – EXPERTIZA TEHNICĂ PENTRU MODIFICARE PROIECT RAMURI P2 ȘI P3 ALE STÂLPILOR PASARELEI.	Edit Moldovan	CERENG CONSULT SRL	2500	2022
11405 /21.09.2017	DETERMINATION OF CHEMICAL COMPOSITION AND MECHANICAL BEHAVIOR OF THE STEEL USED FOR THE CONSTRUCTION OF HUTCHINSON SRL BRASOV FACILITY	ROATA IONUT CLAUDIU	S.C. CERENG CONSULT S.R.L. BRAȘOV	2,000	2017
8407/21.07. 2015	STUDIES CONCERNING THE REAL TIME MONITORING OF LASER WELDING/CUTTING PROCESS	TIEREAN MIRCEA HORIA	Delft Enterprises B.V	600,000	2015-2018

4452/17.04. 2015	NEW METHODS FOR CUTTING METALLIC WASTE	BALTES LIANA	Technische Universiteit Delft	22,000	2015
8330/16.07. 2014	DETERMINATION OF THE OPTIMAL WELDING PROCEDURE FOR THE AUSTENITIC STEEL CREUSABRO 12%M	IOVANAS DANIELA	ArcelorMittal Tubular Products Galati SRL	15,000	2014
17223/28. 11.2013	RESEARCH REGARDING THE BASE MATERIALS USED/DESIGNED FOR THE ECO-MOUNTAIN SHELTER	BALTES LIANA	Red Dome Shelter SRL Miercurea Ciuc	42,315	2013-2014