



Research projects carried out by the team of the Advanced Welding Eco-Technologies Research Centre (2014 – 2020)

National research grants

Nr. Crt.	Project type	No.	Project title	Manager or UNITBV coordinator	Period	Total value RON	Total value UNITBV RON
1	PN-II-RU-TE	349/2015	POLYOLEFINS AND CALCITE WASTES RECYCLING BY OBTAINING NEW COMPOSITE MATERIALS	CROITORU CATALIN	2015-2017	549,999.00	549,999.00
2	PNII- Partnership	188/02.07.2012	PERFORMANT MATERIALS AND TECHNOLOGIES DESIGNED FOR ACHIEVING ASPHALT MILLING TOOLS - MATFREZ	IOVANAS DANIELA	2012 - 2015	2,410,000.00	350,000.00

International research grants

Nr. Crt.	Project type	Project title	Manager or responsible	Period	Value EUR
1	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
1	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
3	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
4	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
5	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 ₂ O CATALYST	PASCU ALEXANDRU	2016	7,300
6	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
7	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

8	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
9	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
10	European Research Infrastructure FP7-INFRASTRUCTURES-2011-1	HYDROGEN STORAGE PERFORMANCE OF IONIC LIQUID-IMPREGNATED AEROGELS	CROITORU CATALIN	2015	8,000
11	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
12	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
13	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 research projects in collaboration with the social and economic environment

Contract no.	Project title	Coordinator	Beneficiary	Total value (VAT incl., RON)	Period
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

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