

## International and national grants and contracts

(selection 2011 – 2018)

No	Project type	Contract no.	Financing body	Project title	Transilvania University coordinator	Period	Total project amount	Total amount at UTBv
<b>International R&amp;D Grants</b>								
1	COST	COST CA16235	EC, COST programe	Performance and reliability of photovoltaic systems: evaluation of large scale monitoring data	Assoc. Prof. Dr. Eng. Bogdan Burduhos	2017-2021		
2	H2020	H2020 LCE, GA 656 760	EC, H2020	BioEnergyTrain BET	Ion Visa Anca Duta	2015-2018	3450000 EUR	185000 EUR
3	M-ERANET	M-ERANET, ctr. 39/2016	EC through UEFISCDI	WaterSafe	Prof. Dr. Eng. Anca Duta	2016-2018	250000 EUR	40000 EUR
4	COST	COST TU1205	EC, COST program	Building Integrated Solar-Thermal Systems, BIST	Prof. Dr. Eng. Ion Visa	2015-2017	700000 EUR	15000 EUR
5	EC FP7 INCO	EC FP7 INCO	EC, FP7	Ener2i	Ion Visa Anca Duta	2014-2016	198000 EUR	10012.3 EUR
6	AUF doctoral	AUF	EC, AUF	1 Ph.D mentorship program	Prof. Dr. Maria Visa	2016	5000 EUR	1000 EUR
7	SCIEX	13273/2013	Swiss Federal Council	Colour Age - Accelerated ageing test procedures for coloured selective absorbers of solar collector	Lect. Dr. Mihaela Dudita	2014-2015	93.700 CHF	93.700 CHF
8	Bilateral Agreement Romania - Cyprus		UEFISCDI + Cyprus Research Agency	Clouds Effect on Solar Radiation - Models	Assoc. Prof. Dr. Eng. Bogdan Burduhos	2014-2015	8500 EUR	8500 EUR
9	SFERA 2	EU-DG RTD Solar Facilities for the European Research Area	Ciemat - PSA & EC	TiO2 Visible – Loght Driven Composite Materials for Industrial Wastewater Photodegradation	Assoc. Prof. Dr. Luminita Andronic	2014	7800 EUR	7800 EUR

10	SFERA 2	EU-DG RTD Solar Facilities for the European Research Area	ENEA & EC	Solar collectors' sealing with increased durability in the working environment (saline aerosols, humidity, temperature and UV)	Assoc. Prof. Dr. Cristina Cazan	2014	8000 EUR	8000 EUR
11	EC, Intelligent energy for Europe	IEE/11/014/SI.26 16363	EC	100 RES Communities	Prof. Dr. Eng. Anca Duta	2013-2015	570000 EUR	5000 EUR
12 – 14	Doctoral / Postdoctoral programs		AUF	5 – Ph.D. mentorship doctoral; 1 – Post-doctoral mentorship	Prof. Dr. Eng. Anca Duta	2013 2014 2018	37500 EUR	6000 EUR
15	SFERA	EU-DG RTD Solar Facilities for the European Research Area	Ciemat - PSA & EC	Durability of solar absorbers in saline atmosphere and concentrated solar radiation, STA - Saline	Lect. Dr. Mihaela Dudita	2013	7559 EUR	7559 EUR
16	SFERA	EU-DG RTD Solar Facilities for the European Research Area	Ciemat - PSA & EC	Experimental Study Regarding the Increase of Received Solar Energy through Orientation	Assoc. Prof. Dr. Eng. Bogdan Burduhos	2012	8248 EUR	8248 EUR
17	FP7	FP7 Regions (CO: ADR 7 Centre)	EC - DG Research, Program FP7	Sustainable Development of Two European Regions	Prof. Dr. Eng. Ion Visa	2007-2011	100000	30000

**Structural funds projects (amounts are given in Lei)**

1	POS-CCE	POS-CCE, Axis 2, O2.2.1, ID123, SMIS 2637, ctr. 11/2009	EC (76%) + RO (24%) + Co-financing TUBv	R&D Institute: High-tech products for sustainable development, PRO-DD	Prof. Dr. Eng. Ion Visa	2009-2013	102.319.178	102.319.178
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**Grants financed with national / governmental funds (amounts are given in Lei)**

1	PNIII-PD	PN-III-P1-1.1-PD-2016-0286	UEFISCDI	Novel "all wastes" composites PV based for indoor or outdoor applications	Res. Dr. Eng. Mihaela Cosnita	2018-2020	250000	250000
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2	PNIII-PD	PN-III-P1-1.1-PD-2016-0289	UEFISCDI	Novel multifunctional composite thin films with simultaneous IR-shielding, self-cleaning and anti-reflection properties for photovoltaics glazing	Lect. Dr. Eng. Maria Covei	2018-2020	250000	250000
3	PNIII-PCCI	PN-III No. 42PCCDI/2018	UEFISCDI	Nanostructured carbon materials for advanced industrial applications (CO: Institute for Microtechnologies)	Prof. Dr. Eng. Anca Duta	2018-2020	5287500	633250
4	PNIII-PED	PN-III-P2- 2.1-PED2016- 0338	UEFISCDI	Laboratory demonstrator and technology for solar-thermal arrays based on flat plate triangle solar-thermal collectors	Prof. Dr. Eng. Ion Visa	2017-2018	600000	600000
5	PNIII-PED	PN-III-P2- 2.1-PED2016-0514	UEFISCDI	Continuous flow demonstrator and technology based on photocatalysis and adsorption for advanced wastewater treatment	Prof. Dr. Eng. Anca Duta	2017-2018	600000	600000
6	PNIII-Bridge Grant	PN-III-P2- 21-BG2016-0349	UEFISCDI	Increasing competitiveness at the SC ELDON SRL by optimizing the manufacturing technology of industrial floor ladders	Prof. Dr. Eng. Mircea Neagoe	2016-2018	460000	460000
7	PNII RU-TE	PNII-RU-TE1762	UEFISCDI	Maximizing the power produced by BIPV according to the climatic profile, type of module and tracking algorithm	Assoc. prof. Dr. Eng. Bogdan Burduhos	2015-2018	700000	700000
8	PARTE-NERiate	128/2014	UEFISCDI	Innovative sustainable system for self-decontamination of the CBRN protection equipment (CB PhotoDeg)	Prof. Dr. Dana Perniu	2014-2016	1440000	362500
9	PARTE-NERiate	217/2014	UEFISCDI	Integrated innovative system Materials – Technology – Equipment for wastewater	Prof. Dr. Maria Visa	2014-2016	1150000	450000

				treatment by simultaneous removal through adsorption and photocatalysis, SimFotoAd				
10	PARTE-NERiate	162/2012	UEFISCDI	Photo-active complex surfaces with applications in energy production and organic pollutants degradation, NANOVISMAT	Prof. Dr. Eng. Anca Duta	2012-2016	3000000	700000
11	PARTE-NERiate	28/2012	UEFISCDI	Efficient solar-thermal systems with increased acceptance in urban implementation, EST IN URBA	Prof. Dr. Eng. Ion Visa	2012-2016	3000000	1300000
12	RU-TE	2/2013	UEFISCDI	New zeolite-type adsorbents obtained from fly ash collected from Romanian CHP plants	Prof. Dr. Maria Visa	2013-2016	631302	631302
13	CNCS-IDEI	840/2008	UEFISCDI	Modelling electrical conduction in the absorber and at the absorber/buffer layer interface for increasing the efficiency in solid state solar cells	Prof. Dr. Dana Perniu	2009-2011	750000	750000
14	PARTE-NERiate	22-101/2008	UEFISCDI	Autonomous monitoring unit with applications in photovoltaics and environmental protection (CO: INCD Condensed Matter)	Prof. Dr. Eng. Ion Visa	2008-2011	2500000	450000
15	PARTE-NERiate	72-184/2008	UEFISCDI	New technological concepts in developing environmental friendly nano-materials (TECNANOECO, CO: INCD-IMNR)	Prof. Dr. Eng. Anca Duta	2008-2011	2500000	427000

**Contracts for R&D Service and Consultancy, R&D - S&C, (amounts are given in Lei)**

1	R&D - S&C	1830/ 1602_2016	Romanian Academy of Sciences, R&D	Characterization, analysis and modelling of the photovoltaic response in ceramic PVs	Prof. Dr. Eng. Anca Duta	2016	40000	40000
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			Institute for Physical Chemistry					
2	R&D - S&C	160/0601_2016	SC ELDON SRL	Optimizing the floor cupboards	Prof. Dr. Eng. Mircea Neagoe	2016	40000	40000
3	R&D - S&C	071, 131, 311/2014	SC ELDON SRL	Analysis and testing of metal parts with Zn coatings (SEM, AFM)	Prof. Dr. Eng. Anca Duta	2014	2108	2108
4	R&D-S&C	0097/2014	INA SCHAEFLER	Characterization and consultancy on thin anticorrosion protective layers	Prof. Dr. Eng. Anca Duta	2014	2852	2852
5	R&D - S&C	618/2014	SC ELECTROSTATIC SRL	Characterization of ground coatings	Prof. Dr. Eng. Anca Duta	2014	2232	2232
6	R&D - S&C	1004/2013	SC ELDON SRL	Analysis and characterization of electro-plated parts (SEM, AFM, XRD)	Prof. Dr. Eng. Anca Duta	2013	1426	1426
7	R&D - S&C	64/2012	F-Metal SRL Fagaras	Analysis of oxide compounds as impurities	Prof. Dr. Eng. Anca Duta	2012	1000	1000
8	R&D - S&C	18278/2012	UPB-CPMTE	Surface characterization of ceramic coatings in heritage buildings	Prof. Dr. Eng. Anca Duta	2012	15000	15000
9	R&D - S&C	1727/2012	Brasov County Council	Official Opening of the R&D Institute of the Transilvania University of Brasov	Prof. Dr. Eng. Ion Visa	2012	16000	16000
10	R&D - S&C	10955/2012	Brasov County Council	Organizing the "Conference for Sustainable Energy 2011"	Prof. Dr. Eng. Ion Visa	2011	15000	15000
11	R&D - S&C	11980/2011	Honeywell RO SRL	Development and characterisation of TiO2 thin films	Prof. Dr. Eng. Anca Duta	2011	10746	10746
<b>International grants for education and training</b>								
1	POSDRU/86/1.2/S/56711		EC (76%) + RO (24%)	Quality and expertise in the development and implementation of	Prof. Dr. Eng. Anca Duta	2010-2013	1900000	175000

			methodologies for competitive products				
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Since the beginning, the RESREC members run many international education and training grants. These contributed to the development of our international cooperation network. Among these there are:

- Leonardo Da Vinci pilot project: RES-EM ICT Tools, 2002 – 2005, CO: Ion Visa
- COMENIUS pilot project: SEE EU-Tool, CO: Ion Visa, 2005 – 2008
- COMENIUS pilot project: CHEMINC, CO: Anca Duta, 2001 – 2003
- COMENIUS pilot project: Pro\_School, CO\_UTBv: Ion Visa, 2008 – 2010
- Leonardo Da Vinci pilot project: BEST, 2008 – 2011, CO\_UTBv: Anca Duta
- ERASMUS, SOCRATES, CDA, M.Sc. curricula development project: Solar Energy, CO\_UTBv: Ion Visa, 1999 – 2002
- ERASMUS, SOCRATES, CDA: eLab, M.Sc. curricula development project, CO: Dana Perniu, 2002-2005
- ERASMUS, SOCRATES, PROG, B. Sc. curricula development project: Environment analyses, CO: Camelia Draghici, 2000-2003
- ERASMUS, SOCRATES, PROG, B.Sc. curricula development project: Eco-Design, CO: Anca Barsan, 2005-2007
- ERASMUS, SOCRATES, MOD, M.Sc. curricula development project, MASS, CO: Camelia Draghici, 2005- 2008
- Leonardo da Vinci mobility grants: CO: Ion Visa, Anca Duta, Lucia Dumitrescu

These supported the development of new study programs, with certain European match and with a broad ERASMUS partners network, accessible to the students and staff. The study programs coordinated by the RESREC members are:

- Engineering of Renewable Energy Systems (B.Sc.)
- Environmental Engineering (B.Sc.)
- Product Design Engineering (B. Sc.)
- Wastes Engineering (B.Sc.)
- Product Design for Sustainable Development and Environmental Protection (M.Sc.)