

### Grants and Contracts financed by International bodies

No.	Project Type, Contract no.	Financing body	Project title	Coordinator	Running period	Total budget [EUR]	UTBv budget [EUR]
1	COST, CA 16235	EC, COST	Performance and Reliability of PV Systems: Evaluation of large scale data, PEARL PV	Assoc. Prof. dr. eng. Bogdan Burduhos	2017-2021		
2	H2020 LCE, GA 656 760 EC	EC, H2020	BioEnergyTrain, BET	Prof. dr. eng. Ion Visa Prof.dr.eng.Anca Duta	2015-2019	3450000	185000
3	ERASMUS + / 2015-1-IT02-KA203-014974	EC – ERASMUS KA2	Politiche Abitative per l'Edilizia Sostenibile	Prof. dr. eng. Mircea Neagoe	2015-2018		
4	M-ERANET, Ctr. 39/2016	EC and UEFISCDI	WaterSafe	Prof.dr.eng.Anca Duta	2016-2018	250000	40000
5	COST TU1205	EC, COST	Building Integrated Solar-thermal Systems, BIST	Prof. dr. eng. Ion Visa	2015 – 2017	700000	15000
6	EC FP7 INCO	EC, FP7	Ener2i	Prof. dr. eng. Ion Visa Prof.dr.eng.Anca Duta	2014-2016	198000	10012.3
7	AUF doctoral programs	AUF	Ph.D. mentorship program, 2016	Maria VISA	2016	5000	1000
8	SCIEX 13273/2013	Swiss Federal Council	Colour Age - Accelerated ageing test procedures for coloured selective absorbers of solar collectors	Lect. Dr. Mihaela Dudita	2014-2015	88500	88500
9	Bilateral Agreement Romania - Cyprus	UEFISCDI + Cyprus Research Agency	Clouds Effect on Solar Radiation Models	Assoc. Prof. dr. eng. Bogdan Burduhos	2014 - 2015	8500	8500
10	EU-DG RTD Solar Facilities for the ERA (SFERA 2)	ENEA&EC	Solar collectors sealings with increased durability in the working environment, 2014	Assoc. Prof. dr. Cristina Cazan	2014 – 2015	8000	8000
11	SFERA 2	Ciemat-PSA&EC	TiO2 Vis-light driven composite materials for Industrial wastewater photodegradation	Prof. dr. Luminita Andronic	2014	7800	7800
12	IEE/11/014/SI.26163 63	Intelligent Energy for Europe	100% RES Communities,	Prof. dr. eng. Anca Duta	2013-2015	570000	5000

13 – 15	AUF Doctoral and Post-doctoral programs	AUF	4 Ph.D. doctoral mentorship and 1 post-doctoral mentorship programme	Prof. dr. eng. Anca Duta	2013, 2014, 2018	37500	6000
16	SFERA	Ciemat PSA&EC	Durability of solar absorbers in saline atmosphere and concentrated solar radiation, STA - Saline	Lect. dr. Mihaela Dudita	2013	7559	7559
17	SFERA	Ciemat PSA&EC	Experimental study on the increase of the received solar energy by tracking, 2012	Assoc. Prof. dr. eng. Bogdan Burduhos	2012	8248	8248
18	FP7 Regions (CO: ADR 7 Centre)	EC - DG Research, Program FP7	Renewable Energy Resources – a Solution for the Sustainable Development of Two European Regions	Prof. Dr. Eng. Ion Visa	2007-2011	100000	30000

#### Projects financed by Structural Funds

No.	Project Type, Contract no.	Financing body	Project title	Coordinator	Running period	Total budget [Lei]	UTBv budget [Lei]
1	POS-CCE, ID123, SMIS 2637, contract no. 11/2009	Structural Funds EC (76%) + RO (24%) + UTBv Co-financing	R&D Institute: High-tech products for sustainable development, PRO-DD	Prof. dr. eng. Ion VISA	2009-2013	102319178	102319178
2	POSDRU/86/1.2/S/5 6711	EC (76%) + RO (24%)	Quality and expertize in the development and implemen-tation of methodologies for competitive products	Prof. dr. eng. Anca Duta	2010-2013	1900000	175000

#### Grants and contracts financed by national (Romanian) bodies

No.	Project type/ Contract no.	Financing body	Project title	Coordinator	Running period	Total budget [Lei]	UTBv budget [Lei]
1	PNIII – RU-PD PN-III-P1-1.1- PD-2016-0286	UEFISCDI	Novel composites obtained using waste PVs for indoor and outdoor applications	Res. dr. Mihaela Cosnita	2018-2021	250000	250000
2	PNIII – RU-PD PN-III-P1-1.1-PD-2016 - 0289	UEFISCDI	New multifunctional composite thin films with simultaneous properties of IR shielding, self-cleaning and	Lect. Dr. eng. Maria Covei	2018-2021	250000	250000

			anti-reflection for the glass part of the photovoltaic modules				
3	PNIII – PCCDI; PN-III No. 42PCCDI/2018 (CO: IMT Bucharest)	UEFISCDI	Nanostructured carbon materials for advanced industrial applications	Prof. dr. eng. Anca Duta	2018-2021	5287500	633250
4	PNIII PED PNIII-P2-2.1-PED-58/2017	UEFISCDI	Laboratory demonstrator and technology for solar-thermal arrays based on flat plate triangle solar-thermal collectors, SOL-TRI-COL	Prof. dr. eng. Ion Visa	2017-2018	600000	600000
5	PNIII PED PNIII-P2-2.1.-PED-124/2017	UEFISCDI	Continuous flow demonstrator and technology based on photocatalysis and adsorption for advanced wastewater treatment PHOTOCAT FLOW	Prof. dr. eng. Anca Duta	2017-2018	600000	600000
6	PNIII Bridge Grant PNIII – P2.2-1-BG-2017	UEFISCDI	Increasing the competitiveness at ELDON LTD by optimizing the manufacturing technology of floor standing enclosures	Prof. dr. eng. Mircea Neagoe	2017-2018	460000	460000
7	PNII RU-TE 1762/2014	UEFISCDI	Maximizing the power produced by BIPVs according to the climatic profile, type of module and tracking algorithm	Assoc. Prof. dr. eng. Bogdan Burduhos	2015-2018	700000	700000
8	PNII – Cooperation 128/2014 (CO: Transilvania University of Brasov, TUBv)	UEFISCDI	Innovative sustainable system for self-decontamination of CBRN protection equipment, CB PHOTODEG	Prof. dr. Dana Perniu	2014-2016	1440000	362500
9	PNII – Cooperation 217/2014 (CO: TUBv)	UEFISCDI	Integrated innovative system: Materials – Technology – Equipment for wastewater treatment by simultaneous adsorption and photocatalysis processes (SimFotoAd)	Prof. dr. Maria Visa	2014-2016	1150000	450000
10	PNII – RU – TE	UEFISCDI	New zeolite – type adsorbents	Assoc. Prof. dr. Maria	2013 –	631302	631302

	2/2013		obtained from fly ash collected from Romanian CHP plants	Visa	2016		
11	PNII – Cooperation 162/2012 (CO: TUBv)	UEFISCDI	Photo-active complex surfaces with applications in energy production and organic pollutants degradation (NANOVISMAT)	Prof. dr. eng. Anca Duta	2012-2016	3000000	700000
12	PNII – Cooperation 28/2012 (CO: UTBv)	UEFICDI	Efficient solar-thermal systems with increased architectural acceptance in urban areas (EST IN URBA)	Prof. dr. eng. Ion Visa	2012-2016	3000000	1300000
13	CNCS – IDEAS 840/2008	UEFISCDI	Modelling electrical conduction in the absorber and at the absorber/buffer layers interface for increasing the efficiency in solid state solar cells	Prof. dr. eng. Dana Perniu	2008-2011	750000	750000
14	PNII – Cooperation 22-101/2008 (CO: INCD Condensed Matter)	UEFISCDI	Autonomous monitoring unit with applications in photovoltaics and environment protection	Prof. dr. eng. Ion Visa	2008-2011	2500000	450000
15	PNII – Cooperation 72-184/2008 (CO: INCD IMNR)	UEFISCDI	New technological concepts in developing environmental friendly nano-materials (TECNANOECO)	Prof. dr. eng. Anca Duta	2008-2011	2500000	427000
16	R&D – S&C 160/0601	ELDON SRL	Optimizing the floor standing enclosures	Prof. dr. eng. Mircea Neagoe	2016	40000	40000
17	R&D – S&C 1830/1602 / 2016	Romanian Academy, R&D Institute for Physical Chemistry	Characterisation, analysis and modelling of the photovoltaic response in ceramic PVs	Prof. dr. eng. Anca Duta	2016	40000	40000
18	R&D – S&C 071, 131, 311 /2014	ELDON SRL	Analysis and testing of metal parts with Zn coatings (SEM, AFM)	Prof. dr. eng. Anca Duta	2014	2108	2108
19	R&D – S&C – 97/2014	INA Schaeffler	Characterisation and consultancy on thin film anti-corrosion protective layers	Prof. dr. eng. Anca Duta	2014	2852	2852
20	R&D – S&C 618/2014	Electrostatic SRL	Characterisation of ground coatings	Prof. dr. eng. Anca Duta	2014	2232	2232
21	R&D – S&C	ELDON SRL	Analysis and characterisation of	Prof. dr. eng. Anca Duta	2013	1426	1426

	1004/2013		electroplated parts (SEM, AFM, XRD)				
22	R&D – S&C 64/2012	F-METAL SRL	Analysis of oxide impurities	Prof. dr. eng. Anca Duta	2012	1000	1000
23	R&D – S&C 18278/2012	UPB - CPMTE	Surface characterisation of ceramic coatings in heritage buildings	Prof. dr. eng. Anca Duta	2012	15000	15000
24	R&D S&C 1727/2011	Brasov County Council	Official Opening of the R&D Institute of the Transilvania University of Brasov	Prof. dr. eng. Ion Visa	2011	16000	15000
25	R&D S&C 10955/2011	Brasov County Council	Organizing the “Conference for Sustainable Energy 2011”	Prof. dr. eng. Ion Visa	2011	15000	15000
26	R&D – S&C 11980/2011	Honeywell Romania	Development and characterisation of TiO2 thin films	Prof. dr. eng. Anca Duta	2011	10746	10746

Since the beginning, the RESREC members run many international education and training grants. Beyond the results, 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 grants supported the development of new study programs and of a broad partners networks, accessible to the students and staff.

The study programs coordinated by the RESREC members are:

- ❖ Engineering of Renewable Energy Systems (B.Sc.)
- ❖ Industrial design (B.Sc. in RO and in EN)
- ❖ Environmental Engineering (B.Sc.) o Product Design Engineering (B. Sc.)
- ❖ Wastes Engineering (B.Sc.)
- ❖ Product Design for Sustainable Development and Environmental Protection (M.Sc.)