

Anexa nr. 2 la Decizia nr.	din	//2011
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The structure of the research unit by research teams at the date of the submission

N°	The name of the research team	Team leader	Number of full researchers CS* (1)	Number of engineers and technicians IDT* (1)					Number of doctoral students at the date of the submission	Labels of all ongoing* research contracts supporting the team members at the date of submission (3)	Labels of the most significant 10 scientific publications of the team in the period 2007-2011 (2)	Labels of the most significant 15 publications of the research unit in the period 2007-2011 (2)
Case of a r	research unit formed of a single	team.			<u> </u>					CF#, CF#, CF#,		
	Nanobiotechnology Laboratory	Mihaela-Silvia Kusko	ease fill in the section be		preparation, characterization and appropriate surface functionalisation of nanoparticles and nanocomposite	nanoscale structures an devices for th diagnosis, treatment, an	of addressing the health risks of these new materials, nanomaterials and/or	NEMS / MEMS area - design and fabrication of new complex devices on silicon or polymers, for applications in many interdisciplinary areas, from biomedicine to energy harvesting.		CF8, CF16, CF29, CF30	A10, A11, A16, A18, A19, A20	A1, A19, A38, A41, A43, A64, A73, A74, A90, A92, A93, A106, A117, A128, A130
	Microsystems in biomedical and environmental applications Laboratory	Carmen Aura Moldovan	10.50		Simulation and modelling for MEMS devices (mechanical, thermal, electrical and coupled multiphysics simulations) and microfluidics	Biosensors (microarrays, ISFET, microelectrodes microprobes for electrical recording/stimulation of cells), chemoresistive, resonant gas sensors, and mechanical sensor	o interfaces and external pumps, reservoirs, tubes); Electrical interfaces, Data	Multiparametric Sensors Platform and Sensor Networks (bio, chemo and mechanical sensors) for biomedical and environmental applications on silicon, plastic or piezoelectric substrate		CF15, F167*	A29, A30, A31, A32, A33, A34, A35, A36	

E3		Mihaela-Dana Cristea	9.00	simulation and CAD of micro and nano photonic structures	MOEMS, optoelectronics and photovoltaics (functional polymers, hybrid organic-inorganic nano-composites, transparent semiconducting	photonic structures for	optical and electrical characterization of materials and devices	2	CF31, CF32, F166*, F174*	A37, A38, A39, A40, A41, A42, A43, A44, A45, A48
E4	Micromachined Structures, Microwave Circuits and Devices Laboratory (RF- MEMS)	Alexandru Muller	13.00	membrane supported microwave and millimeter wave circuits based on Si, GaAs and GaN micromachining, devoted to novel communication	(FBARs and SAWs) based on micromachining	devices based on carbon nanotubes	UV photodetectors based on GaN/Si membranes	2	CF1, CF4, CF5, CF7, CF13, CF19, CF20, CF21, CF22, CF23, CF, 25, CF26, CF28	A54, A61, A66, A74, A79, A82, A89
E5	Simulation, Modelling and Computer-Aided Design Laboratory	Raluca Muller	9.50	simulation (mechanical, thermal, electrical and electrostatic, piezoelectric), coupled field analysis and CAD of MEMS/NEMS	structures and	new technologies for rapid prototyping at micro-nanoscale	Synthesis, characterization and electronic structure simulation of nanostructured materials for functional optoelectronic and spintronic applications	3	CF 27, F175*	A43, A100, A102, A103, A104, A105, A106, A108, A109, A150
E6	Nano-scale structuring and characterization Laboratory		4.00		Nanoscale patterning through Electron Beam Lithography		Scanning Electron Microscopy, Nano- indentation		CF22, CF24, CF25,	A20, A46, A77, A89, A90, A99, A110, A111, A117, A121
E7	Reliability Laboratory	Marius Bazu	4.00	design for reliability and testability, design for manufacture; reliability monitoring & screening of micro and	assessing: accelerated testing of micro and nanostructures; failure analysis &	certification; qualification and periodic tests; standards and other specifications	Biosensors: robust design, manufacturing and testing biosensors for pesticide detection in environment and food sample	0	CF2	A123, B2, B4, P15, P16, P17, RP2, RP3, RP23,CNISI144

E8	Ambiental technologies Laboratory	leana-Viorica Cernica	4.00		technologies in the area of microsistems technologies and nanosenzors:techn	nanocompozites materials and ambiental and	Lighting systems development (on flexible surface included) and microphotodetecto rs for communications(in cluded optical fiber) and environment monitoring	services:technol ogical assistance for flow design, control gates		F168*, F172*	A124, P2, P3, CNISI82, CNISI152, CNISI119, CNISI77, CNISI75	
E9	Molecular Nanotechnology Laboratory	Radu-Cristian Popa	8.00	3.00		Advanced characterization of electronic materials	Modeling, simulation and analysis of quantum, microscopic and macroscopic phenomena in organic and inorganic materials and systems		2	CF10, CF14, CF24	A125, A126, A127, A128, A129, A130, A131	
E10	Micro- and Nano-fluidics Laboratory	Ciprian Iliescu	5.50		extensive applicative potential	molecular transport in biological fluids	The development and characterization of the microfluidics	Modeling, simulation and analysis of nano- and micro- fluidic phenomena Newtonian and non-Newtonian flows	1	CF9, F170*, F171*	A132, A133, A134, A135, A136, A138, A139, A140, A141, A142	
SC1 (4)	Laboratory for Mask manufacturing	Gabriela Dragan		2.00								
SC2 (4)	Laboratory for technological processing			6.00								
SC3 (4)	Laboratory for mentenance of technological equipments	Nicolae Marin		4.00								
SC4 (4)	Support group - IT	Total full time	75 50	6.25								
		Total full time	75.50	28.25	l							

^{*}ongoing till the end of December

equivalent

Example: A CS or IDT working in a single team = 1 (0,5 if working half time).

A CS or IDT working in two teams equally = 0,5 (0,25 if working half time) in each team.

A researcher that works half of his or her working time in the research unit under evaluation and half in another unit will contribute a total of 0,5 cumulated over all teams to which he/she contributes.

⁽¹⁾ Full time equivalent. Researchers contributing to several teams will count the corresponding part-time fraction.

⁽²⁾ Please indicate the corresponding labels from the lists of publications in the subsequent sheets.

⁽³⁾ Projects and contracts other than "nucleu" programs. Labels according to "Project+collaborations" sheet.

⁽⁴⁾ Other non-administrative technical sections.