

**Program Resurse Umane\_Proiecte de Cercetare Postdoctorala**  
**Rezultate finale\_Stiinte Ingineresti**

| Nr. Crt. | Cod                     | Domeniu             | Nume      | Prenume          | Institutie   | Titlu  | Punctaj final |
|----------|-------------------------|---------------------|-----------|------------------|--|--|---------------|
| 1        | PN-II-RU-PD-2012-3-0050 | Stiinte ingineresti | Surducan  | Vasile           | National Institute for Research and Development of Isotopic and Molecular Technologies   | Pyrometric detectors array for microwave power treatments.   | 87.84         |
| 2        | PN-II-RU-PD-2012-3-0122 | Stiinte ingineresti | BALTA     | HORIA            | Universitatea "VALAHIA" din Targoviste   | Study on Multi-non-binary turbo codes and Reed Solomon turbo codes   | 87.83         |
| 3        | PN-II-RU-PD-2012-3-0536 | Stiinte ingineresti | Lungu     | Ion              | Valahia University of Targoviste   | Microassembling Reconfigurable and Self-Actuating Micro-Opto-Electro-Mechanical Systems (MOEMS)  | 87.33         |
| 4        | PN-II-RU-PD-2012-3-0073 | Stiinte ingineresti | Pelin     | Irina Mihaela    | "Petru Poni" Institute of Macromolecular Chemistry   | A temporary occlusion system designed on biomimetic principles for dental applications   | 86            |
| 5        | PN-II-RU-PD-2012-3-0467 | Stiinte ingineresti | David     | Mihai Sorin      | International Center of Biodynamics  | Sensitive quantitation of target microorganisms using dual electro plasmonic analysis and magnetic actuation                                   | 84.5          |
| 6        | PN-II-RU-PD-2012-3-0144 | Stiinte ingineresti | Croitoru  | Cristiana Verona | Universitatea Politehnica Bucuresti  | Innovative ventilated envelope elements for solar heat recovery in low energy buildings (SOLAIR)   | 84.16         |
| 7        | PN-II-RU-PD-2012-3-0591 | Stiinte ingineresti | Dragomir  | Florin           | Valahia University of Targoviste   | A New On-Chip Magnetically-Actuated Mobile Microrobotic Agent and Embedded Control System  | 83.17         |
| 8        | PN-II-RU-PD-2012-3-0380 | Stiinte ingineresti | Stoican   | Florin           | Universitatea Politehnica din Bucuresti  | Set-theoretic issues in control theory for particular families of sets   | 82.17         |
| 9        | PN-II-RU-PD-2012-3-0345 | Stiinte ingineresti | Belean    | Ioan Bogdan      | National Institute for Research and Development of Isotopic and Molecular Technologies   | Low-complexity decoding algorithms and FPGA based hardware architectures for high-throughput LDPC decoders                                     | 80.67         |
| 10       | PN-II-RU-PD-2012-3-0083 | Stiinte ingineresti | Niculescu | Mihaela-Doina    | NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR TEXTILE AND LEATHER (INCDTP)-DIVISION LEATHER AND FOOTWEAR RESEARCH INSTITUTE (ICPI) | Studies and research, in the development of materials and non-conventional methods to induce biocompatibility of rubber surfaces               | 78            |
| 11       | PN-II-RU-PD-2012-3-0499 | Stiinte ingineresti | VOICU     | Rodica Cristina  | National Institute for Research and Development in Microtechnologies   | Structural Optimization, Modeling and Simulation of RF MEMS switches   | 77.17         |
| 12       | PN-II-RU-PD-2012-3-0162 | Stiinte ingineresti | Pop       | Ana-Lidia        | Technical University of Cluj-Napoca  | The study of some vitreous systems with multiple technological applications  | 76.32         |
| 13       | PN-II-RU-PD-2012-3-0349 | Stiinte ingineresti | Chiscan   | Ovidiu           | "Gheorghe Asachi" Technical University of Iasi   | Study of ferromagnetic nano and microstructured materials produced by electrospinning, with properties in high and ultrahigh frequency domains | 74.67         |
| 14       | PN-II-RU-PD-2012-3-0423 | Stiinte ingineresti | Taralunga | Dragos Daniel    | Politehnica Institute of Research, Development and Innovation  | Biosignal enhancement and advanced biosignal processing to improve fetal monitoring.   | 74.67         |
| 15       | PN-II-RU-PD-2012-3-0078 | Stiinte ingineresti | Voicu     | Viorel           | Transilvania University of Brasov  | Glycerol recovery by etherification with olefins: ecological additives for fuels   | 74            |

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| 16       | PN-II-RU-PD-2012-3-0398  | Stiinte ingineresti | Barbu      | Marian            | "Gheorghe Asachi" Technical University of Iasi   | Hierarchical system for optimal control of integrated urban wastewater systems   | 74            |
| 17*      | PN-II-RU-PD-2012-3-0062* | Stiinte ingineresti | Tanasa     | Constantin        | Romanian Academy - Timisoara Branch  | Innovative magneto-rheological device solution for improving the performances of centrifugal pumps.  | 73.5*         |
| 18       | PN-II-RU-PD-2012-3-0319  | Stiinte ingineresti | lordache   | Mariana Iuliana   | National Institute for Laser, Plasma & Radiation Physics                               | Roughness at nanoscale   | 72.83         |
| 19       | PN-II-RU-PD-2012-3-0553  | Stiinte ingineresti | BALAN      | ALEXANDRA LIGIA   | Stefan cel Mare University, Suceava, Romania   | Performance Analysis and Enhancement of Interference Reduction and Handoff Algorithms in 4G Communication Networks and Wireless Optical Communications | 72.66         |
| 20       | PN-II-RU-PD-2012-3-0301  | Stiinte ingineresti | Racasan    | Nicoleta-Adina    | Babes-Bolyai University of Cluj-Napoca   | Techniques to improve the electromagnetic devices performances designed in planar technology   | 72.5          |
| 21       | PN-II-RU-PD-2012-3-0331  | Stiinte ingineresti | Sebastian  | Aradoaei          | S.C. Comfrac R&D Project Expert S.R.L. Bucuresti                                       | Innovative green materials obtained from renewable resources with applications in electrical engineering   | 72.5          |
| 22       | PN-II-RU-PD-2012-3-0133  | Stiinte ingineresti | Stefanescu | Alexandra Raluca  | National Research and Development Institute for Microtechnologies IMT-Bucharest        | GaN/Si Membrane Supported FBAR Filters for 2-6 GHz applications  | 72.34         |
| 23       | PN-II-RU-PD-2012-3-0182  | Stiinte ingineresti | Anton      | Alin              | ACADEMIA ROMANA FILIALA TIMISOARA  | H2PC: A knowledge-based paradigm for highly-efficient high performance computing of self-induced numerical complex flows                               | 71.84         |
| 24       | PN-II-RU-PD-2012-3-0339  | Stiinte ingineresti | Comsa      | Ciprian Romeo     | "Gheorghe Asachi" Technical University of Iasi   | Compressive Localization with Software Defined Radios  | 70.5          |
| 25       | PN-II-RU-PD-2012-3-0223  | Stiinte ingineresti | Mogildea   | Marian            | National Institute for Laser, Plasma and Radiation Physics –Institute of Space Science | High Speed THz-TDS Imaging System  | 70            |
| 26       | PN-II-RU-PD-2012-3-0582  | Stiinte ingineresti | Vasilache  | Viorica           | Universitatea "Alexandru Ioan Cuza" din Iasi   | STUDIES AND RESEARCH ON NEW ARCHAOMETRIC FEATURES INVOLVED IN VALORIZATION OF THE ARCHAEOLOGICAL METALLIC AND CERAMIC ARTIFACTS                        | 70            |
| 27       | PN-II-RU-PD-2012-3-0128  | Stiinte ingineresti | Caruntu    | Constantin Florin | Universitatea Politehnica din Timisoara  | Networked predictive control based on polyhedral Lyapunov functions for high-tech fast systems with hardware/networking constraints                    | 68.32         |
| 28       | PN-II-RU-PD-2012-3-0347  | Stiinte ingineresti | Serbanescu | Cristina          | Politehnica University of Bucharest  | Experimental study and modeling of the pyrolysis of the vegetal wastes impregnated with catalytic precursors   | 68.17         |
| 29       | PN-II-RU-PD-2012-3-0259  | Stiinte ingineresti | Stanciu    | Irina             | National Institute for Research and Development in Microtechnologies                   | Stochastic Simulation and Modeling of Micro-Electro-Fluidic Systems  | 68            |
| 30       | PN-II-RU-PD-2012-3-0266  | Stiinte ingineresti | bancuta    | iulian            | Valahia University Of Targoviste   | Novel nanostructured skutterudite thin films for thermoelectric applications   | 66.83         |

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| 31*      | PN-II-RU-PD-2012-3-0227*  | Stiinte ingineresti | Ene          | Dragos Valentin  | National Institute of Research and Development for Optoelectronics, INOE-2000                   | Synchronization and management of radar experimental data for archaeological survey  | 66.17*        |
| 32*      | PN-II-RU-PD-2012-3-0638*  | Stiinte ingineresti | Apatean      | Anca Ioana       | Technical University of Cluj-Napoca   | Researches on developing a general tool to detect and recognize objects in images by integrating information from one or multiple sources            | 66.17*        |
| 33       | PN-II-RU-PD-2012-3-0566   | Stiinte ingineresti | SORIN        | POPA             | UNIVERSITY VASILE ALECSANDRI  | Analysis of geometrical elements, load capacity curve and surface texture on the reliability of rolling bearings.                                    | 65.67         |
| 34**     | PN-II-RU-PD-2012-3-0093** | Stiinte ingineresti | Mitu         | Ana Maria        | Institute of Solid Mechanics of Romanian Academy  | DEVELOPMENT OF NOVEL EXPERIMENTALY-BASED THEORETICAL METHODS FOR A PRECISE USE OF THE HYSTERESIS DIFFERENTIAL MODELS IN PRACTICAL APPLICATIONS       | 64.83**       |
| 35**     | PN-II-RU-PD-2012-3-0140** | Stiinte ingineresti | Ienascu      | Ioana            | National Institute for Research and Developing in Electrochemistry and Condensed Matter         | ECO FRIENDLY MICROWAVE ASSISTED SYNTHESIS OF SOME NOVEL O-SUBSTITUTED HYDROXYBENZAMIDE DERIVATIVES AS POTENTIAL ANTIMICROBIAL AGENTS                 | 64.33**       |
| 36**     | PN-II-RU-PD-2012-3-0142** | Stiinte ingineresti | Gherasimescu | Catalin          | Universitatea "Alexandru Ioan Cuza" din Iasi  | New materials and procedures used for the preservation and restoration of cellulosic textile fibers of old artefacts from national cultural heritage | 62.83**       |
| 37**     | PN-II-RU-PD-2012-3-0531** | Stiinte ingineresti | EUGEN        | ENCULESCU        | UNIVERSITY VASILE ALECSANDRI  | The increase of performances of cutting tools and active elements of agricultural domain, by multilayer PVD titanium coating                         | 62.5**        |
| 38**     | PN-II-RU-PD-2012-3-0214** | Stiinte ingineresti | Plopa        | Olga             | COMFRAC R&D PROJECT EXPERT SRL  | Development of new electromagnetic shielding materials with distributed impedance  | 61.33**       |
| 39**     | PN-II-RU-PD-2012-3-0268** | Stiinte ingineresti | Nemtanu      | Florin           | Universitatea din Pitesti   | Autonomic Traffic Management Systems - architecture, algorithms and real time simulation   | 60.5**        |
| 40**     | PN-II-RU-PD-2012-3-0072** | Stiinte ingineresti | URSAN        | GEORGE-ANDREI    | SC COMFRAC R&D PROJECT EXPERT SRL   | Applications of novel sensors in automobiles, based on classic and safety communication protocols  | 59.83**       |
| 41**     | PN-II-RU-PD-2012-3-0568** | Stiinte ingineresti | Nicolae      | Maximilian       | Universitatea "Valahia" din Targoviste  | IMPROVEMENT OF MODELS AND SIMULATION METHODS FOR WIRELESS SENSOR NETWORKS NODES.   | 59.5**        |
| 42**     | PN-II-RU-PD-2012-3-0077** | Stiinte ingineresti | BUCUR        | ROXANA DANA      | "GHEORGHE ASACHI" TECHNICAL UNIVERSITY IASI   | OBTAINING AND CHARACTERIZATION OF ENVIRONMENTALLY FRIENDLY CONCRETE FOR LIVESTOCK BUILDINGS  | 54.83**       |
| 43**     | PN-II-RU-PD-2012-3-0325** | Stiinte ingineresti | Angheluta    | Laurentiu-Marian | National Institute of Research and Development for Optoelectronics INOE 2000, Magurele, Romania | Intelligent platform for the collaborative control of a teleoperated investigation device in the conservation of artworks                            | 54.5**        |
| 44**     | PN-II-RU-PD-2012-3-0597** | Stiinte ingineresti | DANIEL       | HERGHEA          | UNIVERSITY VASILE ALECSANDRI  | Research the top layer of the surface tension of hard and very hard, measured ultrasonic   | 51.83**       |
| 45**     | PN-II-RU-PD-2012-3-0584** | Stiinte ingineresti | Rusu         | Marius Sebastian | Petru Maior University of Targu Mures   | A novel unified and extensible framework for networked control systems   | 48.5**        |

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| 46**     | PN-II-RU-PD-2012-3-0289** | Stiinte ingineresti | Boca     | Mihai          | „ Dunarea de Jos" University of Galati (UDJ)   | Theoretical and experimental researches concerning the cutting prelucrability of some composite materials with polymeric matrix                       | 48.17**       |
| 47**     | PN-II-RU-PD-2012-3-0633** | Stiinte ingineresti | Pirghie  | Ana-Camelia    | Stefan cel Mare University of Suceava          | An interdisciplinary analysis of nanolubrication processes, heat transfer and magnetization reversal for the next generation hard disk drives         | 47.17**       |
| 48**     | PN-II-RU-PD-2012-3-0440** | Stiinte ingineresti | REȘCEANU | IONUȚ CRISTIAN | University of Medicine and Pharmacy of Craiova | ARTIFICIAL NEURAL NETWORKS AND FUZZY LOGIC CLASSIFICATION OF LIVER FIBROSIS USING ELASTOGRAPHY HUE HISTOGRAM ANALYSIS COMPARED TO FIBROSCAN AND FBMAX | 44.34**       |

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