#	POLYTECH	Professeur	EMail	PhD Subject	Computer sciences	Agriculture sciences	Life sciences	Material sciences	Energy and environment	Engineering	Social sciences	Complementary Topics	Required skills in science and engineering	Research Unit
1	Clermont	AMZIANE Sofiane	Sofiane.amziane@uca.fr	Development of Lime Based Carbon Negative Concrete from Vegetal Aggregates				X	X			IV-7. Materials for environment and ecology IV-10. Biomaterials and polymer materials V-10. Ecological variation of environment and ecological design	An excellent background in materials science and technology is recommended, but civil engineers are accepted too.	Institut Pascal
2	Clermont	ADOUANE Lounis	Lounis.Adouane@uca.fr	Sub-optimal Energy Management Architecture based on Stochastic Decision Process for Intelligent Hybrid Electric Vehicles	X				X	X		I-17. Control theory and technique V-4. New technology of high-performance energy economics VI-4. Intelligent construction	Automatic science, Mechanical engineering and Computer science	Institut Pascal
3	Clermont	AUDONNET Fabrice	fabrice.audonnet@uca.fr	Electrocoagulation as a tool for refractory compounds and heavy metals removal in wastewater treatment.					X			V-9. Hydrology and continued use of resources of the ground and water	Chemical Engineering, Chemical Physics, Physical Chemistry.	Institut Pascal
4	Clermont	BREUL Pierre	Pierre.breul@uca.fr	Probabilistic Reliability Analysis of earth dams or dikes concerning internal erosion risk						X		VI-2. Prevention of serious engineering breakdowns and system safety	Civil or hydraulic engineering, geomechanical modeling, stochastic modelling, geostatistics, reliability	Institut Pascal
5	Clermont	DELATTRE Cedric	cedric.delattre@uca.fr	Enzymatic and biochemical cross-linking of chitosan applied to the formation of hydrogels and bio-based materials		X		X		X		IV. Science of materials II-13. Green chemisty VI-4. Intelligent construction	Biological engineering, chemistry Engineering, material engineering.	Institut Pascal
6	Clermont	DRISSI Khalil	khalil.drissi@uca.fr	Efficient Power Drive of Hybrid and Electric Vehicles					X			V-4. New high performance energy saving technology	Power electronics, microcontroleur programming, Matlb/simulink	Institut Pascal
7	Clermont	LAROCHE Celine	Celine.Laroche@uca.fr	Adaptation of the moss Physcomitrella patens to changes in CO2 and temperature cultivated in bioreactor		X			X			V-11. Change of world climate and climatic forecasting II-13. Green chemistry II-2. Animal and plant new transgenic techniques	Molecular Biology, cell Biology, Bioengineering, Chemical engineering, Biosystems	Institut Pascal
8	Clermont	PIERRE Guillaume	guillaume.pierre@uca.fr	Design of an immobilized enzymes reactor with polysaccharides and producing functional poly- and oligosaccharides multicatalytic enzymes for deconstructing		X		X		X		II-13. Green chemistry IV-10. Biomaterials and polymer materials VI-3. Sustainable development engineering and lower cost manufacturing	Required skills in: Enzymology, Bioprocess engineering, Genetic engineering, Glycochemistry, Polymer materials	Institut Pascal
9	Clermont	POUGHON Laurent	Laurent.poughon@uca.fr	Microbial Electrochemical Cell for VFA removal					X			V-5 : Hydrogen production	Chemical engineerring Bioprocess engineering and Micobiology Modelling and simulation (in chemical engineering)	Institut Pascal
10	Clermont	VIAL Christophe	christophe.vial@uca.fr	Ex-situ biomethanation in the hydrogen storage, CO2 reuse and power-to-gas strategies					X			V-5. Energy of hydrogen and technology of hydrogen storage	Chemical engineering, biochemical engineering	Institut Pascal
11	Grenoble	AKO Komla	Komla.ako@univ-grenoble-alpes.fr	Modeling and predicting the collapsing of hydrogels using artificial intelligence method			X	X				IV-10. Biomaterials and polymer materials ; IV-12. Environmental behavior and failure of materials; III-7. Biomedical engineering	Chemical Engineering, Physics, or Material Science disciplines	LRP
12	Grenoble	BASROUR Skandar	Skandar.basrour@univ-grenoble-alpes.fr	Soft miniaturized piezoelectrets for energy harvesting, MEMS and robot applications				X		X		VI.7: Robot and integration of microelectromechanic IV.10: Biomaterials and polymer materials IV.11: Information, storage and sensor materials	Knowledge in material science : polymer manufacturing, electrical and mechanical properties of materials, modelling. Interest for manufacturing soft devices with polymers. Knowledge in softwares as Ansys, Comsol Multiphysics or Matlab.	TIMA Laboratory (Techniques of Informatics and Microelectronics for integrated systems Architecture)
13	Grenoble	GONON Laurent	Laurent.gonon@univ-grenoble-alpes.fr	Understanding the aging mechanisms of polymeric materials for energy				X	X			IV-10. Biomaterials and polymer materials V-5. Energy of hydrogen and technology of hydrogen storage V-7. Combustible battery	Solid experience in microscopy (optical, near field, electronic) and spectroscopy (FTIR, Raman)	SyMMES
14	Grenoble	GUERIN Anne	Anne.Guerin@gipsa-lab.fr	Oculomotor markers of normal cerebral response and effect of normal ageing - joint analysis of eye movements and EEG			X					III-3. The working and development of the brain III-13. Ageing: prevention and treatment of illnesses of the senior citizen	Signal Processing, Statistics and Programming (MATLAB or Python)	Laboratoire Grenoble Images Parole Signal Automatique GIPSA-lab
15	Grenoble	PELLERIN Denis	denis.pellerin@gipsa-lab.grenoble-inp.fr	Deep explanation for Multimedia Indexing and Retrieval.	X							I-12. Understanding models and intelligent systems	Machine learning, mathematics, computer programming	Laboratoire Grenoble Images Parole Signal Automatique GIPSA-lab
16	Grenoble	SIMEU Zineb	zineb.simeu@univ-grenoble-alpes.fr	Reliability and safety analysis of manufacturing systems modeled by timed event graphs: a machine learning approach	X					X		I-8.Techniques of simulation and application VI-2. Prevention of serious engineering breakdowns and system safety	Good knowledge in: programming, reliability and safety engineering, manufacturing systems	G-SCOP (Laboratoire des Sciences pour la Conception, l'Optimisation et la Production de Grenoble)
17	Grenoble	SYLVESTRE Alain	alain.sylvestre@g2elab.grenoble-inp.fr	Coated-carbon-nanotubes polymer composites for supercapacitors				X				IV.2: Nanomaterials IV.10: Biomaterials and polymer materials	Material science : polymer manufacturing, electrical and mechanical properties of materials, knowledge of experimental techniques for the analysis of material properties.	Grenoble Electrical Engineering Laboratory (G2Elab)
18	Lille	BALLOY David	David.balloy@univ-lille.fr	Design, realization and study of bimetallic and metallic based composite materials with controlled architecture obtained by mixed process: additive manufacturing/foundry/powder metallurgy for heat exchange in braking systems				X		X		IV. Science of materials	Metallurgy processes and materials Metals characterization Capacity for computing (hard and software)	UMET – UMR CNRS 8207
19	Lille	BENABOU Abdelkader	abdelkader.benabou@univ-lille.fr	Numerical modeling and validation of a wireless charging structure applied to electric vehicles	X				X			V. Energy and environment I-8. Techniques of simulation and application	Electrical engineering, numerical modeling and simulation, device control	L2EP (Laboratory of electrical engineering and power electronics)
20	Lille	DIEULOT Jean-Yves	jean-yves.dieulot@polytech-lille.fr	Health and operation aware predictive control	X				X			V. Energy and environment	Control, diagnosis, prognosis. Power/Renewable Energy systems	Cristal UMR9189 CNRS
21	Lille	DUCOURNAU Guillaume	guillaume.ducournau@univ-lille.fr	Wireless communications at THz frequencies for backhauling in beyond 5G cellular networks	X							I. Telecommunication and information technology	Electrical engineering, High frequencies	IEMN, Institute of Electronics, Microelectronics and Nanotechnology
22	Lille	DUPONCHEL Ludovic	ludovic.duponchel@polytech-lille.fr	Deap learning in hyperspectral imaging for biomedical exploration	X		X			X		III-7. Bioomedical engineering. I-19. Teledetection and geographical information science	Data analysis, Machine learning	LASIR Lab (Lab of the French Research Council)
23	Lille	ETIEN Anne	Anne.Etien@polytech-lille.fr	Designing Fingerprint Resistant Browsers	X							I-13. Network information security	Web programming, Software Engineering	Cristal UMR9189 CNRS
24	Lille	LEMAIRE-SEMAIL Betty	Betty.semail@polytech-lille.fr	A tactile feedback surface with haptic guidance : introducing non uniform friction distribution						X		VI-6. Micro electromechanical technology	Modelling and control of electro-mechanical systems, industrial electronics, base of mechanics	L2EP-IRCICA

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25	Lille	MROUEH Hussein	Hussein.Mroueh@polytech-lille.fr	Numerical modelling of heat exchange between an energy geostructure and the surrounding ground	X				X			V. Energy and environment I-8. Techniques of simulation and application	Analysis of fully coupled thermo-mechanical problems, development of specific nulmerical tools and methods of calculation	Civil Engeneering and Geo-Environment Laboratory (LGCgE)
26	Lille	ROLLAND Nathalie	Nathalie.rolland@ircica.univ-lille1.fr	Efficiency improved Internet of Things (IoT) networks	X							I. Telecommunication and information Technology	Software design (Linux, C, Python) Modeling Embedded software and hardware knowledges	IRCICA
27	Lille	SHAHROUR Isam	isam.shahrour@univ-lille.fr	Use of the smart technology for the lifecycle management of the underground space						X	X	VI. Engineering science VII-31. Sustainable development strategy	Geotechnical engineering or civil engineering background, information system knowedege	Laboratoire de Génie Civil et géo-Environnement (LGCgE)
28	Lille	TALBI El Ghazali	el-ghazali.talbi@univ-lille.fr	Automatic optimization of hyperparameters in deep learning	X							I-12. Understanding models and intelligent systems	Python programming, optimization, machine	Cristal UMR9189 CNRS
29	Lille	ZAOUI Ali	azaoui@polytech-lille.fr	Self-damping properties of smart concrete					X			V. Energy and environment	A high level in computer science, concrete properties	Civil Engeneering and Geo-Environment Laboratory (LGCgE)
30	Montpellier	BENOIT Pascal	Pascal.benoit@lirmm.fr	Main memory security vulnerabilities in the context of emerging technologies	X							I-13. Network information security.; I-14. IC Design; I-11. Structure of new computer systems	Electrical Engineering, Computer Sciences or equivalent.	LIRMM
31	Montpellier	BERRY Vincent	Vincent.berry@umontpellier.fr	Computational methods to characterize inter(sub)specific rice genomes	X		X		X			V.18 Biological diversification III.1 Functionnal genome and proteinomist	Computer Science background (in particular skills in designing and analyzing algorithms) together with applied mathematics or statistics skills	LIRMM
32	Montpellier	FRAISSE Philippe	fraisse@lirmm.fr	Robotic manipulation of soft objects – Towards a robotic Michelangelo						X		VI-7. Robot and integration of electromechanics	Optimization, Robotics, Signal Processing	LIRMM
33	Montpellier	LAURENT Anne	anne.laurent@umontpellier.fr	Novel approach to graph databases for managing large scale raw data	X							I-7. Information processing of intelligent network I-11. Structure of new computer systems I-12. Understanding models and intelligent systems	Computer Science ; Data Science ; Web Applications ; System Programming	LIRMM
34	Montpellier	NICOUD Franck	franck.nicoud@umontpellier.fr	Modeling and computation of thrombus formation in blood flows.	X		X					III-7. Biomedical engineering ; I-1. Large scale computation	Fluid or solid Mechanics, Scientific computing, High Performance Computing (optional), Biomechanics (optional), chemistry (optional)	Institut Montpelliérain Alexander Grothendieck
35	Montpellier	NOUET Pascal	nouet@lirmm.fr	High efficiency CMOS charge pumps for IoT and other low-power applications	X					X		I-14 IC Design I-3 Micro(nano) electronic components VI-6 Technologie micro-électromécanique	Analog Circuit Design – Transistor-level circuit design – IC Design	LIRMM
36	Montpellier	SALLES Christian	christian.salles@umontpellier.fr	Coastal urban rivers and chemical input to offshore areas : contaminant characterization, quantification of fluxes and application to a coastal river					X			V-9. Hydrology and continued use of resources of the ground and water V-12. Mechanism of environmental pollution and technology of control V-14. World change and evolution of the environment	MSc or Meng Water Sciences hydrology, chemistry, field work	HydroSciences Montpellier
37	Montpellier	SILLY Gilles	Gilles.silly@umontpellier.fr	125Te NMR and ab initio calculations in Te materials				X				IV-11. Information, storage and sensor materials	General knowledge in physics, Quantum Mechanics, Chemistry and Materials science.	Institut Charles Gerhardt de Montpellier
38	Montpellier	TORRES Lionel	lionel.torres@lirmm.fr	FPGA-accelerated computer architecture simulation to rethink data storage and movement in many-core systems	X							I-11. Structure of new computer systems I-8. Techniques of simulation and application	Good knowledge of HDL and FPGA design, fluent programming skills and basic knowledge of computer architecture.	LIRMM
39	Nancy	ELMAZRIA Omar	omar.elmazria@univ-lorraine.fr	Low profile, lightweight, high gain stretchable antennas for highly constrained wireless sensing environments	X			X				I. Telecommunication and information Technology IV-1. Nanotechnology and Nanotechnique	Engineering or Master degree with background in either RF/ antenna /telecommunications, micro-nanotechnology, electronics, wave physics. The applicant must be fluent in English or French	Institut Jean Lamour
40	Nantes	AIT-AHMED Mourad	mourad.ait-ahmed@univ-nantes.fr	Strategies for Optimal Management of a micro-grid integrating storage and distributed renewable energy sources	X				X	X		I-17: Control theory and technique V-1: Prevention and treatment of electric system breakdowns. Economic process VI-2: Prevention of serious engineering breakdowns and system safety	Electrical engineering,- Control theory	IREENA - Institut de Recherche en Energie Electrique de Nantes Atlantique
41	Nantes	AMIRI Ouali	Ouali.amiri@univ-nantes.fr	Experimental and numerical investigation of the hygrothermal behavior of eco-materials : consideration of climat change effect on their durability				X	X			IV-7 Materials for environment and ecology IV-10- Bio-matériaux et matériaux polymères V-11- Change of world climate and climatic forecasting	Tranfert in porous media, building materials, numerical methods and computing.	GeM, UMR 6183
42	Nantes	AUVITY Bruno	Bruno.Auvity@univ-nantes.fr	Recursive identification of continuous-time, non-linear and uncertain dynamic models - application to the diagnosis / prognosis of proton exchange membrane hydrogen fuel cells	X				X			V-5. Energy of hydrogen and technology of hydrogen storage V-7. Combustible battery I-17. Control theory and technique	Electrical Engineering, Electrochemistry, Thermal Science, Mathematics, Numerical Analysis	IREENA - Institut de Recherche en Energie Electrique de Nantes Atlantique
43	Nantes	GUELED Ahmed	Ahmed.ouldelmoctar@univ-nantes.fr	Experimental Study of Metallic Piece Cooling by Quenching Process.					X			V. Energy and environment	Heat Transfer, Two Phase Flow, Experimental Methods	Laboratoire de Thermique et Energie de Nantes (LTeN)
44	Nantes	LEKLOU Nordine	nordine.leklou@univ-nantes.fr	3D printing of building materials - application to the construction of the structural walls of buildings				X		X		VI. Engineering science IV. Science of Materials	• Knowledge in civil engineering materials and their durability & transport phenomena and rheology • Competence in physics and fluid mechanics • Programming (Matlab)	Research Institute in Civil and Mechanical Engineering (GeM – UMR CNRS 6183)
45	Nantes	MACHMOUM Mohamed	mohamed.machmoum@univ-nantes.fr	Power Quality and Stability Enhancement in Distributed Generation Systems based Microgrids	X					X		I-17. Control theory and technique VI.-2. Prevention of serious engineering safety breakdowns and system safety	Electrical Engineering - Control theory - Power electronics	IREENA - Institut de Recherche en Energie Electrique de Nantes Atlantique
46	Nantes	MARCHAL Luc	luc.marchal@univ-nantes.fr	Biorefining of microalgae : Characteirzation of ground biomass, a strategy to develop relevant fractionation processes of valuable biomolecules		X				X		II-13 Green chemistry II-9 Food engineering and deep processing technology VI-3 Sustainable development engineering and lower cost manufacturing	Chemical engineering, chemical analysis, biomolecules characterization. Good/proficient in spoken and written English is necessary. Good working knowledge in French would also be an advantage	GEPEA, Process Engineering for Environment and Food Laboratory

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47	Nantes	PILLEMENT Sébastien	Sebastien.Pillement@univ-nantes.fr	Statistical modeling and analysis methods for system-level design of secured multi-core architectures	X							I-14. IC design I-11. Structure of new computer systems I-12. Understanding models and intelligent systems	Computer systems, programming languages…	I.E.T.R.
48	Nantes	TRICHET Didier	didier.trichet@univ-nantes.fr	Unified modeling formalisms of EDO / EDP for optimial design of power systems					X			V-4 New technology of high-performance energy economics	Electrical Engineering major, background in applied mathematics and physics. Finite element softwares	IREENA - Institut de Recherche en Energie Electrique de Nantes Atlantique
49	Nice	DOLEAN Victorita	Victorita.Dolean@univ-cotedazur.fr	Robust solvers for geophysical exploration in heterogeneous media	X							I-1 Large Scale Computation I-8 Techniques of simulation and application	Scientific computing, Numerical and mathematical modelling, Programming	Laboratoire Jean-Alexandre Dieudonné
50	Nice	GOURBESVILLE Philippe	gourbesv@unice.fr	Virtual Reality (VR) and Augmentated Reality (AR)solutions for water realated natural disaster management and mitigation	X				X			V-15. Formation and forecast of serious natural disasters I-8. Techniques of simulation and application V-14. World change and evolution of the environment	Advanced competences in coding, good knowledge of deterministic numerical models in physics and if possible in fluid mechanics, knowledge in Geographic Information subjects, interested for pluridisciplinary team & fluency in English	Polytech'Lab
51	Nice	JACQUEMOD Gilles	Gilles.Jacquemod@unice.fr	Design and realization of a BLE Transceiver in FDSOI Technology	X							I-4. Nanoelectronics I-14. IC Design	Electronics and microelectronics EDA Tools (Spice, Cadence) Analog and RF circuit design	Polytech'Lab
52	Nice	KUZHIR Pavel	kuzhir@unice.fr	Enhancing microfluidic manipulation of magnetic nanoparticles by molecular adsorption: towards applications to water remediation and immunoassays				X				IV-2. Nanomaterials	Basic knowledge in soft matter and nanomaterials; basic skills in physical experiments and chemistry	Institute of Physics of Nice (INPHYNI)
53	Nice	SANTISI Paola	msantisi@unice.fr	Estimation of building structure safety using motion records						X		VI-2. Prevention of serious engineering breakdowns and system safety VI-4. Intelligent construction	Basis of Mathematics and Physics Good level of computer skills and Informatics Good level of oral and written English Knowledge of Building design would help	Laboratoire Jean-Alexandre Dieudonné
54	Nice	SAUCE G IBRAHIM M	Mohamad.IBRAHIM@univ-cotedazur.fr	Multi-functional and adaptive Façade Tool						X		VI-4. Intelligent construction	Heat and mass transfer; numerical modeling; programming language (MATLAB and/or Python)	Polytech'Lab
55	Orléans	ABED MERAIM Karim	Karim.abed-meraim@univ-orleans.fr	System Identification: from blind to informed processing	X							I-7. Information processing of intelligent network	Signal processing, probability & statistics, linear algebra	PRISME
56	Orléans	BRAULT Pascal	pascal.brault@univ-orleans.fr	Multiscale molecular dynamics simulation of persistent organic pollutant abatment: from fundamentals to efficient processing	X				X	X		I.1. Large scale computation V-12. Mechanism of environmental pollution and technology of control VI-3. Sustainable development engineering and lower cost manufacturing	Molecular dynamics simulation, physics and chemistry of reactivity, plasma chemistry and physics	Groupe de Recherche sur l'Energétique des milieux Ionisés GREMI UMR7344 CNRS
57	Orléans	HAMBLI Ridha	ridha.hambli@univ-orleans.fr	Development of a biomechanical finite element model to simulate the dynamic fracture of bone organs			X					III-7. Biomechanical Engineering	Solid Mechanics, Finite element, Material science	Laboratory of Mechanics Gabriel Lame
58	Orléans	HIVET Gilles	Gilles.hivet@univ-orleans.fr	Calculation of materials and simulation for design				X				IV-6. Calculation of materials and simulation for design	Strong knowledge in mechanics of material, continuous mechanics and numerical simulation. Affinity for experimental characterisation	Laboratory of Mechanics Gabriel Lame
59	Orléans	HONG Dunpin	dunpin.hong@univ-orleans.fr	Study of non-thermal plasmas dedicated to water pollution control					X	X		V-12. Mechanism of environmental pollution and technology of control VI-3. Sustainable development engineering and lower cost manufacturing	Applied Physics, Electrical engineering	Groupe de Recherche sur l'Energétique des milieux Ionisés GREMI UMR7344 CNRS
60	Orléans	JENNANE Rachid	Rachid.Jennane@univ-orleans.fr	Deep Learning-Based Approaches for Automatic Knee Osteoarthritis Diagnosis	X		X					III-7. Biomedical engineering, I-8. Techniques of simulation and application	Machine learning, Image processing, computer programming, matlab, mathematical background is a plus	Multimodal Imaging, Multiscale and Modeling of Bone and Joint Tissue – I3MTO – EA4708
61	Orléans	MOTELICA Mikael	mikael.motelica@univ-orleans.fr	Rhizospheric processes involved in phytostabilisation of metals in contaminated soils					X			V-12. Mechanism of environmental pollution and technology of control	Soil science, chemistry, microbiology, biology	ISTO UMR 7327 CNRS-Université d'Orléans-BRGM
62	Orléans	POIRIER Jacques	jacques.poirier@univ-orleans.fr	High-performance ceramic materials: study of transport properties of refractory castables to optimize their drying out				X				IV-9. High performance ceramics materials IV-12. Environmental behavior and failure materials	Ceramic Materials, High Temperature, Physical Chemistry, Laboratory experimentation, Modelling	CEMHTI-CNRS Extreme Conditions and Materials: High Temperature and Irradiation
63	Orléans	RAVIER Philippe	Philippe.ravier@univ-orleans.fr	Multi-dimensional surface Electromyography signal processing with application to Parkinson's disease			X					III.7 Biomedical engineering	Signal processing, statistics, electrophysiology, electronics	PRISME
64	Orléans	REKIK Amna	amna.rekik@univ-orleans.fr	Developpement of a numerical tool for simulation of multi-scale behaviour of human tissue			X	X				IV-10. Biomaterials and polymer materials III-7. Biomedical engineering III-6. Tissue engineering	Homogenization techniques, nonlinear mechanical behaviour, finite elements simulations	Laboratory of Mechanics Gabriel Lame
65	Paris Sud	FOURY Pascale	Pascale.foury@u-psud.fr	Structure, disorder and electron-phonon coupling in bi-dimensional kappa-(BEDT-TTF)2X charge-transfer spin-liquids and multiferroics				X				IV. Science of materials and new materials	Structural and electronic properties of materials Competences in condensed matter	Laboratoire de physique des solides
66	Paris Sud	LANCRY Matthieu	Matthieu.lancry@u-psud.fr	Reliable Fiber Bragg Gratings sensors for extreme environments				X		X		VI-2. Prevention of serious engineering breakdowns and system safety IV-11. Information, storage and sensor materials	Optical science, glasses, laser-matter interaction, optical fibers	ICMMO
67	Tours	CONTE Donatello	donatello.conte@univ-tours.fr	Multimodal Analysis for Affective Computing	X							I-12. Understanding models and intelligent systems	Programming, Image Processing, Machine Learning, Probabilistic Graphical Models	Tours Research Laboratory in Fundamental and Applied Computer Science
68	Tours	LACROIX Florian	lacroix@univ-tours.fr	Fatigue Behavior of Elastomers used in the aeronautical applications : Innovative approaches using thermal and mechanical signals treatment				X				IV-1 : Nanotechnology and Nanotechnique IV-6 : Calculation of materials and simulation for design IV-10 : Biomaterials and polymer materials	Mechanical Theoritical background	Laboratory of Mechanics Gabriel Lame
69	Tours	RAGOT N RAMEL JY	nicolas.ragot@univ-tours.fr	Continuous learning of pattern recognition system for classification in data streams	X							I-7. Information processing of intelligent network I-12. Understanding models and intelligent systems I-1. Large scale computation	Data analysis, computer science, programming langages (C++, Java, Python, Matlab), machine learning	LIFAT and RFAI
70	Tours	RICHARD Caroline	Caroline.richard@univ-tours.fr	Innovative doping of piezoelectric ceramics				X				IV-9. High performance ceramics materials IV-11. Information, storage and sensors materials IV-12. Environmental behavior and failure materials	Applicant possess good background and interest in piezoelectric ceramics materials, Materials science, mechanical engineering, numerical modelling	GREMAN UMR CNRS 7347

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71	Tours	WANTZEN Karl	Karl.wantzen@uni-tours.fr	Ecological design of urban man-river encounter sites					X			V-10. Ecological variation of environment and ecological design V-14. World change and evolution of the environment	Engineers in urban planning (skills in GIS, modelling, and design programs) and/or environmental engineering (skills in river management and ecological habitat restoration) with a good background in natural sciences (hydrology, ecology) that are also affiliated to sociological techniques (professional interviewing, evaluation of social/ cultural ecosystem services, mediation, participative planning) in the context of urban rivers.	CNRS UMR CITERES