



## GOT ENERGY TALENT MSCA COFUND Second Call for Fellowship

### PRELIMINARY<sup>1</sup> ranking list Applications under URJC hosting groups 5 December 2019

According to the meeting of GET MSCA-COFUND Management Board held on 3 December 2019, the Management Board approved the following preliminary list of applicants. The lists are based on the scientific evaluations provided by the Department for Coordination and Evaluation (*Subdivisión de Coordinación y Evaluación, SCE*) of the Spanish Ministry of Science, Innovation and Universities, performed according to the principles and procedures described in the Guide for Evaluators and the Guide for Applicants for Got Energy Talent 2nd call for fellowships.

#### Applications potentially selected for funding (14 fellowships)

URJC will fund the first 14<sup>2</sup> project proposals as listed below.

Ranking	Surname, Name	Title of the project proposal	Mentor / Research line
1	Armenise, Sabino	Catalytic Conversion of Plastic by Magnetic Nanoparticles Radiofrequency-Assisted. Acronym: PlasMagFuel	Marta Muñoz Hernández / Plastic waste to alternative fuels
2	Herman, Kyle	Enhancing the Energy Transition by Developing Novel Policy Proxies and a Toolkit for Practitioners and Researchers	Susana Galera Rodrigo / Energy Transition: Implementing the European Roadmap 2050
3	Wuebben, Daniel	WIRE SEED 360: Weaving Innovative Research and Public Engagement: Smart Energy, Science Education, and Dissemination of 360° Content	Manuel Gertrudix Barrio/ Smart Energy: Dissemination and Communication of Circular Economy

<sup>1</sup> All applicants to Got Energy Fellowship programme have a right to a redress procedure if they feel that there has been a shortcoming in the way their proposal was evaluated. The ranking lists will only be considered final once the redress process is finalized.

<sup>2</sup> 13 positions were offered initially. URJC is offering 14 position due to the rejection of one fellowships from the 1<sup>st</sup> call.



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4	Jamil, Basharat	Implications of Socio-Economic and Environmental Variables on the Energy Demand Estimation in Spain	Abraham Duarte Muñoz / Intelligent Energy Demand Estimation
5	Ambassa, Pacome Landry	safeGRID: Security and privacy in Fog-Enabled Smart Grid	Javier Martínez Moguerza / Smart energy management system for Secure HANs (Home Area Networks) that integrates with Smart grid architectures
6	Carrasco-Garrido, Sergio	Metal-organic frameworks for CO <sub>2</sub> capture and conversion	Guillermo Calleja / Advanced organic-inorganic hybrid materials for CO <sub>2</sub> capture and conversion
7	Sotelo Vazquez, Carlos	Bio-PhLoW: Bio-inspired Photocatalysis Leading to safe-Water	Cristina Pablos Carro / Energy Efficiency for Water Disinfection
8	Emami, Mohsen	Secure HANs (Home Area Networks) with Smart grid architectures	Javier Martínez Moguerza / Smart energy management system for Secure HANs (Home Area Networks) that integrates with Smart grid architectures
9	Sáiz, Luciana	Development of Self-healing and Self-sensing materials for use in wind turbine blades	Alberto Jiménez Suárez / Multifunctional materials Self-healing/self-sensing capabilities for wind blade turbines
10	Gomes, Phillipe	TransFlex – Transmission flexibility planning for energy transition: Making smart decisions under uncertainty	Abraham Duarte Muñoz / Computing tools applied to renewable energy analysis
11	Banerjee, Samya	Next generation of visible light induced nanostructured photocatalysts for efficient carbon dioxide reduction (NanoPhotRed)	Santiago Gómez Ruiz / Chemo-enzymatic CO <sub>2</sub> adsorption and valorization by hybrid nanomaterials
12	Kozyatnyk, Ivan	Graphene-lignin porous composites for water treatment from emerging organic contaminants by bioelectro Fenton process	Fernando Martínez Castillejo / Efficient technologies of treatment and recovery of wastewaters resources
13	Ingole, Deepak	Adaptive Learning MPC for Energy Management in Transport and Grid Applications	Antonio García Marqués / Adaptive optimization and learning over networks
14	Luing, Syie Luing	Feasibility study on plastic pyrolysis in electromagnetic field over zeolites impregnated with magnetic nanoparticles (PEFZIMN)	Marta Muñoz Hernández / Plastic waste to alternative fuels
15	Rubino, Felice	innovative COatings for enhanced PERFORMANCE of coNcentrating solar teChnOlogies (COPERNICO)	Pedro Poza / New Materials for Concentrated Solar Power (CSP) plants
16	Kazemi, Abolghasem	A framework for optimization of chemical processes based on their various environmental impact potentials using genetic algorithm	Jovita Moreno Vozmediano / Novel approaches for sustainability assessment of clean energy systems



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17	Rovense, Francesco	Highly-Flexible and Dispatchable Polygeneration using Concentrated Solar Technologies	Javier Dufour / Dynamic modelling of highly-efficient polygeneration systems
18	Erans Moreno, Maria	Adsorbents for low-concentration CO2 capture (ALCO2)	Amaya Arencibia Villagrà / Materials development for CO2 capture from air
19	Câmara, George	Geological Reservoir Use: Technologies for Oil and Gas Exploitation Increase x New Trends	Susana Galera Rodrigo / Energy Transition: Implementing the European Roadmap 2050
20	Yadav, Asheesh Kumar	Integrated Microbial Electrochemical Technology in Constructed Wetlands for low-cost wastewater treatment and recovery of wastewater resources	Fernando Martínez Castillejo / Efficient technologies of treatment and recovery of wastewaters resources
21	Rizwan Tabassum, Muhammad	Process Development for Renewable Gas Production from Biomass-An Integrated Approach	Gemma Vicente Crespo / Renewable and sustainable energy; New green technologies; CO2 capture
22	Arroyo Gómez, José Joaquín	Multifunctional structural supercapacitors based on carbon fibre polymer composites	Alejandro Ureña Fernández / Energy storage in multifunctional composites: Structural Energy Storage
23	Ullah, Sana	Multi-Component Nano Particle In-Organic Oxide Charge Transporting Materials for Stable Perovskite Solar Cells	Beatriz Romero Herero/ Third Generation Photovoltaics: Organic and Perovskite Solar Cells
24	Ray, Tapan Kumar	Exergy analysis-based optimization of a hybrid pumped thermal electricity storage for large scale applications	Eloy Sanz Pérez / Concentrated solar power and pumped thermal electricity storage – synergy effects and innovative hybrid plant layouts
25	Vargas-Garcia, Cesar	Energy-Efficient Fusion Smart Sensor for Acquisition and Processing of Compressive Spectral Images	Javier Martínez Moguerza / Low energy compressive spectral imaging sensors



## Applications not selected for funding

The applicant did not reach some threshold, either the overall one or any of the thresholds applicable to particular criteria.

Surname, Name	Title of the project proposal
Vázquez Oviedo, Erick Israel	Stability analysis of reconfigurable hybrid microgrids.
González Pérez, Omar	Design, modelling and start-up of a bio-electro-Fenton process for the treatment and valorisation of refinery and petrochemical effluents
Pavón-Orozco, Patricia	Study of forestry and agroindustrial lignocellulosic residues for the integral production of bioethanol and xylose bioproducts through combining SSF and acid-catalysis over modified zeolites.
Romero Rivas, Max Jorge Antonio	Optimization of reaction routes for a successful deoxygenation and production of jet-fuel from biowaste using nanomaterials as catalyst
Valipourmarandi, Alireza	Application of microbial fuel cells (MFC) for simultaneous petroleum wastewater treatment and power generation using isolated bacteria from refinery industries
Cardozo Rocabado, Evelyn	Life cycle sustainability assessment of bioenergy systems
Arumugam, Mahashanon	Catalytic systems for the sustainable production of alternative jet-fuel from biomass using acid modified Pd catalysts
Ashoka Sahadevan, Suchithra	Functionalized porous structures as platform for CO <sub>2</sub> valorization (Fustval)
Ahmed, Khaled Hassanein Sayed	Design of Metal-Organic Framework materials for CO <sub>2</sub> capture and conversion
Nasirian, Nima	Development of appropriate bioprocess strategies for single cell oil and carotenoid synthesis from volatile fatty acids as the main carbon source by the oleaginous red yeasts
Amaya Vargas, Carlos Alberto	Phoenix wind blades (self-healing, self-heating and self-monitoring wind blades for use in the wind energy industry).
Shahi, Aiyoub	An All-round Plan for Advanced Biofuel Production from Lignocellulosic Biomass, with Emphasis on Consolidated Bioprocessing and Integrated Biorefinery
Amusan, Akinwumi	Development of efficient perovskite solar cells employing nanodoped charge transport conducting polymers
Huamán Aguirre, Arnold Anthony	Improve the external quantum efficiency measurement through impedance spectroscopy analysis for the photovoltaic performance optimization of tandem organic solar cells.
Jafarzadeh, Mohammad	CO <sub>2</sub> capture and transformation to value-added chemicals using ionic-liquid modified Metal-Organic Framework (MOF)
Bouazizi, Nabil	Multifunctional Metal-Inorganic-Organic-Matrices (MIOM) for CO <sub>2</sub> Conversion/Storage and Energy Storage
Noorian Najafabadi, Seyyed Abbas	Nano MOF-enzyme hybrid material for CO <sub>2</sub> adsorption and valorization (NaMOFad)
Tajik Jamalabad, Milad	modelling of Improved shell-and-tube heat exchangers by using porous media as applied in thermal energy storage systems for concentrated solar power



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Thangaraj, Baskar	An Investigation of Biodiesel Production through Electro-catalytic Process
Mehrpanahi, Abdollah	Enhancing an optimal Combined Cooling, Heating, Power and Desalination (CCHP Des) structure based on the dynamic modeling of a solar aided recuperative(or simple) gas turbine
Balasubramanian, Sakthivel	Heterogeneous catalysts for platform chemical synthesis from lignocellulosic biomass
Hajji, Lobna	Production of bio-jet fuels, biogas and carotenoid from microalgae
Jyoti, Jeevan	Multifunctional structural supercapacitors and Li-ion batteries based on carbon fibre polymer composites
Sanchez, Yeni	Simulation and characterization of Organic photovoltaics cells
Balladores, Yanpiero	Multifunctional structural supercapacitors and Li-ion batteries based on carbon fibre polymer composites
Naghizadeh, Matin	Chemo-enzymatic CO <sub>2</sub> -valorization with nanomaterials
Bolla, Srinivasa Rao	Aldol condensation followed by HDO of biomass derived chemicals for the production of Jet-fuels over solid catalysts

