



ESR1 – Job vacancy

Position description	
Reference	ESR1
Title	Development of Polymer Blend Nanocomposites (PBNANOs) from Recycled Plastics
Recruiting Institution	University of the Basque Country (UPV/EHU)-POLYMAT
Secondment Institution	Borealis
Expected start date (estimated)	October 1, 2020

Job Offer description	
Objective	Formulation of polymer blend nanocomposites employing postconsumer recycled PET bottles, recycled polyolefins (PP and/or PE) and functionalized nanoparticles. i) Determining compatibilization efficiency, morphology stability and processing conditions, ii) Tuning the morphology and mechanical properties by addition of functionalized nanoparticles and compatibilizing agents (e.g., PP-g-MAH or PE-g-MAH), iii) Finding the optimum blend composition for balanced properties and adequate performance for sought upgrade application (e.g., automotive parts, smart packaging fibers).
Expected results	ESR should be able to evaluate the compatibilization efficiency of
	functionalized nanoparticles and grafted copolymers for novel recycled PBNANOs. ESR should evaluate the relationship
	between blend morphology, processing and end properties.
Supervisors	Prof. A. Müller (UPV/EHU and POLYMAT), Dr. S. Kahlen
	(Borealis).
Secondments (short	Borealis: Morphological characterization of prepared blends,
term academic and	Evaluation of mechanical properties of most promising PBNANO
industrial internships)	

Vacancy requirements		
Qualifications	Not having resided in Spain for more than 12 months in the 3 years immediately before the recruitment date, and not having carried out their main activity (work, studies, etc.) in Spain during this period. Having a master degree or equivalent diploma, less than 4 years of research career at the recruitment date, and not having a doctoral degree. Solid background in polymer materials	
Languages	Excellent command of written and spoken English is a must.	

Skills	Ability for research management, dissemination, communication with colleagues and supervisors, strong teamwork spirit, creativity, problem solving and attention to safety.
Experience	Research experience in the academic or industrial sector will be considered

Job details	
Salary	Salary and benefits will follow the rules of the MSCA-ITN, as foreseen in the Marie Skłodowska-Curie Actions Work Programme. Gross salary: (3270€ per month*CCC Spain (95,4%)) 3119,58€ + 600 € mobility allowance *CCC (Country Correction Coefficient)
Other benefits	Other benefits: Gross family allowance: 500€ per month - if applicable at the time of recruitment
Duration	36 months (18 months at UPV/EHU and 18 months at Borealis)
Start date	Estimated: 01/10/2020
Type of contract	Full time
Place of work	At UPV/EHU: Donostia-San Sebastián, Spain At Borealis: Linz, Austria