DC6 – Open Position

Position Description	
Reference	DC6
Project title	Predicting mechanical properties of polymer films using machine learning
Recruiting Institution	UPV/EHU – University of the Basque Country
Secondment	Short secondments in CINEMA academic and industrial partners are expected
Expected Start Date (estimated)	July 1st, 2023 (or earlier if possible)

Job Offer Description	
Keywords	Machine learning, polymer, rheology
Objectives	Develop a predictive machine learning model that links process design to polymer rheology for multiphase polymer dispersions
Expected Results	(i) Synthesis of polymer latexes under different process conditions and measurement of their corresponding rheological properties. (ii) ML model that predicts rheology from process conditions and reaction recipe. (iii) Demonstration of process design for desired rheological properties.
Supervisors	Dr. Nicholas Ballard

Vacancy requirements	
Qualifications	MSCA-recruiting rules are applied: 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, and not having a doctoral degree. Solid background in polymer materials. Some previous experience with finite element analysis and/or computer programming is desirable.
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 and problem solving.
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-DN, as foreseen in the Marie Skłodowska-Curie Actions Work Programme. Gross salary per month in Spain: (3400€ per month*CCC Spain (91,3%)) 3104,20€ + 600 € mobility allowance
Other benefits	Other benefits: Gross family allowance: 660€ per month - if applicable* *The family allowance will also be made available to researchers whose parental status changes during their project.
Duration	36 months
Type of contract	Full time
Place of work	Donostia/San Sebastián (Spain). UPV/EHU-POLYMAT