

Partner Name	Partner Type	Supervisor	Country	Project Role Description – PhD 11
Carbery	Industry	Shane Patterson	Ireland	<p>Increasing the efficiency of downstream processes that valorise dairy side streams</p> <p>Optimising valorisation technologies that process side streams is of critical importance to maximise outputs, profitability of biobased processes and to minimise residues arising from these valorisation technologies.</p>
UCD	Academic	Eoin Casey	Ireland	<p>The project aims to improve the performance of the downstream anaerobic treatment facility and related processing units. In order to optimise the performance of the anaerobic digestion process, laboratory based fundamental research will be conducted with batch and continuous tests. Laboratory scale continuous reactors will be operated to check the long-term performance of the process under various operating conditions. Mathematical models will be developed to gain a greater understanding of the bioprocess and the model will be used to improve operational efficiency. The model will be validated by using pilot and full-scale anaerobic reactor data.</p> <p>Understanding the impact of operating parameters on the biomass species will help to optimize and improve the performance of the full-scale anaerobic reactor. Water and nutrient recovery options from the anaerobically treated effluent will also be explored to close the material cycles of the bio-based industry.</p>

Any queries on this post please contact Talent4BBI@biorbic.com

ESR's Recruitment Timeline Process										
M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13
Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Recruitment Call Open and Applications Assessed					Interviews	ESR's hired, move to hosts. Fellowships commence				
Month 13 - Month 60 - Fellowship Implementation										