

Horsfall, Louise, PhD

Dr Louise Horsfall is a Senior Lecturer in Biotechnology and the elected co-chair of the Bioengineering and Bioprocessing section of the European Federation of Biotechnology. She began her career as a chemist at the University of Oxford before moving to Liège, Belgium, to study biochemistry, gaining her PhD in 2007. After postdoctoral research at the Universities of Leeds and Glasgow, she moved to the University of Edinburgh in 2012 to establish her own research group in the applied synthetic biology area. Louise received the University of Edinburgh's Chancellor's Rising Star Award in 2015, was selected for membership of the Young Academy of Scotland in 2016, and this year was awarded a highly competitive Early Career Fellowship from the EPSRC. Louise believes that biotechnology has the potential to transform manufacturing by using waste as a feedstock, rather than it being an end product. Her current research includes the use of bacterial metal reduction and nanoparticle formation pathways to enable the bioremediation of waste, water and land; employing techniques and tools provided by synthetic biology to increase the value of the metals recovered.