

PHD (MICROBIAL BIOTECHNOLOGY)

Programme Learning Outcomes

Programme Learning Outcomes for PhD in Microbial Biotechnology (NFQ Level 10, Major Award)

On successful completion of this programme students should be able to:

- Demonstrate their ability to advance knowledge in microbial biotechnology as evidenced by a body of original research described in a doctoral thesis;
- Critically evaluate scientific literature and important concepts in the field of biotechnology and to incorporate these concepts into research projects as required;
- Effectively communicate and present scientific and technological results and concepts, in written and oral form, to diverse audiences;
- Productively engage with colleagues in both academia and industry to develop and implement cross-sectoral research projects;
- Act autonomously in the planning and implementation of research projects;
- Work effectively as an individual, in teams and in multi-disciplinary settings, and take a proactive and self-reflective role in working and developing professional relationships with others;
- Identify the innovation potential of biotechnological research and the pathways towards research valorisation;
- Execute the steps needed to identify and protect intellectual property that may arise from original research;
- Demonstrate an awareness of the ethical context of biotechnological research and to be able to express the value of their research to society.