Competence Profile BBIP

	Biology-Biotechnology	Business economics
Knowledge		
	Describe the biological complexities with the field of cell and organism biology and molecular biology at an advanced level including the principles of cell functions and genetic control of these processes Critically reflect on the theory behind methods. Using a model systems to integrate basic knowledge about an organism to understand complex biological process Evaluate the usefulness of different organisms as expression hosts in research Comprehend integrated approaches to biological questions using genetics, physiology, biochemistry and bioinformatics to relate phenotypes to genotype as platforms for modeling organism metabolism at the molecular level	At an advanced level be knowledgeable about the factors shaping the commercial context and potential for bio-innovations- and ventures. Decompose challenges in bioinnovation and entrepreneurship into problems corresponding to relevant analytical tools and solutions. Critically understand the conditions for applying theories and methods. Understand the role of assumptions behind methods and theories and assess their implications for analytical results.
Skills		
	Use advanced methods in molecular biology in the context of a research project. Use basic knowledge from other disciplines in an integrated manner when analyzing current problems in biology – biotechnology. Discuss and choose techniques in molecular biology, design of laboratory protocols and safety procedures in relation to handling and exploitation of organisms in biotechnology Transfer theory, hypothesis and principles through biochemical, and/or mathematical/statistical description to results, which can be statistical and experimental tested. Read, discuss and present original articles within the field. Communicate effectively to specialist and non-specialist audience at a variety of levels, using modern and appropriate information and communication tools	Use advanced methods for solving analytical issues in bio-innovation and entrepreneurship relating particularly to the fields of innovation analysis, market entry and performance, governance, control and contracting and also financing and valuation. Understand the interfaces between these different disciplinary approaches. Select and prioritize between analytical solutions for specific problems in innovation and venturing. Asses' strengths of analytical results particularly regarding their robustness against changes in the business environment. Independently be able to develop analytical strategies appropriate for different business challenges. Read, discuss and present original articles within the field. Communicate effectively to specialist and non-specialist audience at different levels, using modern and appropriate information and communication tools.
Competences		
	Transfer theories and principles from advanced state-of-the-art molecular biology and business economics to solve new questions posed by the research community, industry and the society Understand the science underlying bio-innovations innovation, allowing assessment not only of the strength of the research but also of its	

	uniqueness, its susceptibility to imitation etc. Draw implications from this understanding of the science of the innovation to the conditions and potentials associated with its commercialization. Work independently and effectively on an individual basis and in teams. Particular emphasis is put on team-working abilities in cross-disciplinary environments spanning bioscience and business creation. Use lifelong learning as a principle to independently evaluate and structure learning processes and assume responsibility for continuous professional development.