## Preethi Jayaprakash

# Biotechnology

PhD in Biotechnology and Food Engineering (Collaboration btw Fluid Air & Université de Lorraine). Expertise in drying processes, Probiotics, microencapsulation and Powder characterisation or stability

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**Core business**

**PHASE 1** **Skill development**

• Microsoft Office (Excel, Word, PowerPoint), Share point.
• Microencapsulation, Spray drying, Lyophilization, Electrostatic spray drying (Manufacturing systems), R&D, HPLC, SEM, AFM, Microbiology skills, Dry blending systems, Physical characterization of solid forms or powders, Scale-up plant operations.
• Industrial Biotechnology and Downstream processing knowledge.
• Formulation, stability, fermentation, powder stability, processing technologies.
• Self-motivated, initiative, Teamwork, Problem solving, Decision making, data-driven mindset, logical problem solver, etc., and Influencing skills.
• Travel flexibility, Project Management, English Proficiency (Written and Verbal communication).

*Sets his professional goals to be ambitious yet realistic.*
*Identifies and develops means to enhance his employability throughout his career; manages his professional development.*
*Broadens and upgrades his skillset, personal qualities and achievements.*
*Uses his networks to expand his scope of competence.*
*Knows how to transfer his expertise to other fields of activity.*
*Realizes the necessarily international dimension of his career path.*
*Accepts input from a mentor or coach to benefit his professional development.*

**PHASE 1** **Evaluation**

*Evaluates the value of various documents concerning his field of expertise.*
*Is able to judge his own results in terms of both quality and added value.*
*Is willing to expose ideas to a critical audience; takes others' opinions of his work into account.*
*Is willing to evaluate the work of other contributors and provides reasoned, realistic judgments of others' work.*

**PHASE 1** **Expertise and methods**

*Masters the basic knowledge and key concepts of his field and knows their history and their significance.*
*Is familiar with recent progress in his field.*
*Can view his research activities within an international context.*
*Is familiar with the investigative methods and techniques of his field (including mathematics and*

*statistics) and can explain why they are appropriate for a given purpose.*
*Is able to consider alternative methods and techniques.*
*Is able to formulate problems and hypotheses according to needs.*
*Defends his research findings in a constructive manner; provides evidence to support his ideas and proposals.*
*Organizes his presentations in a clear, informative and concise manner.*

## Personal and relational qualities

**PHASE 1** **Communication**

*Knows how to put together a persuasive presentation and communicate about his project or his activity.*
*Understands, interprets and communicates appropriately in a register suited to his aims and his audience.*
*Masters a range of communication tools.*
*Masters his online identity.*
*Contributes to the dissemination of knowledge within the company, and demonstrates effective teaching skills.*
*Is proficient in at least English and one other world language.*

**PHASE 1** **Collaboration**

*Develops and maintains cooperative networks.*
*Knows how to build a professional network for his own and the company's benefit.*
*Is considered an authority in his field of expertise.*
*Is able to envisage his work in a partnership framework; evaluates the benefits and limitations of a partnership and identifies shared and conflicting interests.*

## Business management and value creation

**PHASE 1** **Project management**

*Plans projects to meet goals in accordance with strategy and priorities, and taking quality, deadline and budget constraints into account.*
*Knows how to write specifications.*
*Is accountable for resources used and for meeting the deadlines and quality requirements of the deliverable.*
*Reacts efficiently and appropriately to change and unforeseen events.*
*Conducts his project within a framework of auditing and evaluation, deploying the appropriate systems.*