

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*



Personal and relational qualities

- 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.

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.