The professional profile of PhD-holders

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.