

# The professional profile of PhD-holders

## Melina Cyrenne

### Gestion de projet en biologie

Titulaire d'un master de recherche en microbiologie et d'un doctorat en Sciences de la vie et de la santé, je me spécialise dans les domaines du microbiote et de l'antibiothérapie.

melina.cyrenne@gmail.com

LinkedIn : <https://www.linkedin.com/in/melina-cyrenne/>

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## Core business

### PHASE 1 Skill development

*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 2 Evaluation

*Knows how to regularly evaluate the progress, impact and outcomes of his staff's activities.*

*Takes part in evaluating both internal and external projects.*

*Is able to evaluate hypotheses and concepts lying beyond his field of expertise.*

*Encourages his staff to take ownership of the evaluation process.*

### PHASE 2 Information management

Au cours de mes études, j'ai non seulement obtenu un certificat "Interactions scientifiques" au cours duquel j'ai appris comment chercher des informations et rédiger des revues scientifiques, j'ai aussi rédigé des articles scientifiques, des brevets, des rapports de progression, des demandes de subvention, un mémoire de maîtrise et une thèse. De plus, mon métier de rédactrice scientifique s'articule autour de la rédaction d'états de l'art.

*Conducts advanced searches using a range of software solutions, resources and techniques, recognizing the advantages and limitations of each.*

*Masters the creation, organization, validation, sharing, storing and archiving of information and/or raw data and addresses the associated risks.*

*Understands the legal, ethical and security requirements of information management.*

*Is familiar with the value of, and uses, metadata.*

*Advises and assists his staff using information-gathering and management methods, critiquing sources and evaluating information and data.*

*Makes his staff aware of information security and legal and ethical requirements.*

### 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 2 Communication

*Adapts his register to communicate with experts in other fields at both the national and international levels.*

*Masters communication techniques for various contexts and media.*

*Communicates effectively when addressing a diverse and lay audience.*

*Knows how to address a community of professionals.*

*Educates and trains his staff in the use of digital communication technologies.*

*Is able to work and lead a group in at least English and one other world language.*

### PHASE 2 Analysis, synthesis and critical thinking

*Knows how to apply his analyzing and synthesizing abilities to new fields.*

*Takes ownership of new analytical methods.*

*Has a novel and independent way of thinking and makes significant contributions.*

*Questions "business-as-usual" scenarios in his activity.*

*Advises his staff to help them develop their own capacities of analysis and synthesis.*

*Stimulates critical thinking among his peers and his staff.*

### PHASE 2 Open-mindedness and creativity

*Explores related fields.*

*Conceives new projects to find answers to essential questions.*

*Encourages his staff to seek challenge, be curious and engage in scientific questioning.*

*Defines and carries out innovative interdisciplinary projects with the help of contributors from various backgrounds.*

*Serves as a vector of innovation, a realistic visionary, a constructive agitator.*

*Encourages creativity and innovation among his staff.*

*Has acquired professional experience abroad in a culture other than his own.*

### PHASE 1 Integrity

*Respects the standards and practices of his entity.*

*Demonstrates integrity in the processing and dissemination of data.*

*Demonstrates integrity with respect to his partners' or competitors' contributions in accordance with intellectual property rules.*

*Upholds the confidentiality and anonymity of subjects taking part in studies and research.*

*Honors his commitments and ensures the congruence between actions and words.*

*Declares any conflict of interest.*

### PHASE 1 Balance

*Is aware of his aptitudes, knows how to take advantage of them and demonstrate them.  
Expresses himself relevantly, confidently and didactically.  
Recognizes the limits of his knowledge, skills and expertise, and knows where to find support when needed.  
Is able to consider his practices and experience as part of the bigger picture.  
Develops his strengths and knows how to correct his weaknesses by seeking the opinion of others.  
Is aware of the need to reconcile career and personal life.  
Develops mechanisms to cope with pressure and seeks support when needed.*

### **PHASE 3** Listening and empathy

*Encourages his staff to exercise their listening abilities.  
Establishes a mode of operation that allows everyone's contributions to be taken into account.*

## **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.*

### **PHASE 1** Intellectual and industrial property

*Has basic knowledge of the rules of intellectual/industrial property and copyright as they apply to his own activities.  
Understands the advantages and drawbacks of filing a patent.  
Is aware of the importance of controlling the release of information.*

## **Strategy and Leadership**

### **PHASE 1** Strategy

*Is aware of how his project fits into the organization's strategy and the strategic directions of the sector or field of activity.  
Understands relationships between entities and individuals (the role and drivers of each).  
Is able to identify influential people that support his projects and understand what they stand to gain from it.*

### **PHASE 1** Leadership

Lors de mon master, comme au début de mon doctorat, j'ai moi-même développé les projets de recherche. J'ai présenté mes idées et mes certitudes à mes encadrants et j'ai pu les convaincre. Dans le cadre de ces projets, j'ai choisi des collaborateurs qui pourraient soutenir mes ambitions.

*Exercises leadership in connection with a project of which he is in charge.  
Knows how to be persuasive and enlist support for a project.  
Mobilizes skills for a project of which he is not in charge; manages human resources even when people do not officially report to him.*

*Builds alliances.  
Establishes relationships based on trust.*

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