The professional profile of PhD-holders

Arun THANGAMANI

Compilers, code optimization and high-performance computing

arun.thangamani@etu.unistra.fr

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 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 Information management

Knows how to review the state of the art (SOTA) in a scientific topic.

Makes efficient use of information-gathering methods, identifies pertinent resources, particularly bibliographic resources.

Masters web-based research (e.g., bibliographic databases, patent databases)

Knows how to judge the pertinence of information, critique sources and check source reliability. Designs and implements information-gathering and management systems using suitable technology.

Addresses issues relating to the security and life cycle of data.

Seeks out support from experts in information and data management.

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.

PHASE 1 Open-mindedness and creativity

Demonstrates an ability to acquire knowledge; shows flexibility and open-mindedness. Engages in interdisciplinary activities.

Possesses a constructive style of questioning and scientific doubt.

Develops, takes ownership of and tests new ideas; is clever; seizes opportunities.

Interacts with and seeks the collaboration of professionals of different cultures; knows how to accommodate cultural differences.

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 Listening and empathy

Has the ability to listen in various situations.

Understands the needs and way of thinking of the people he deals with, including those with a different field of expertise, occupation and/or culture.

PHASE 1 Negotiation

Is able to detect people's unstated needs based on the requests they formulate.

Knows how to reconcile the drivers, requirements and constraints of his contacts to reach a

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 Decision-making

Knows how to make appropriate decisions for each phase of his project.

Assists his line management in making major decisions (e.g., reporting, scenarios)

PHASE 1 Obtaining and managing funding

Manages his own funding and is comfortable in discussions with budget, financial and economic decision-makers.

Understands the funding process and knows how to determine the profitability of an activity. Knows how to answer a request for proposals and/or write a grant application.

PHASE 1 Customer focus

Is attentive to national and international markets; takes incoming and outgoing communication (suppliers, customers) into account.

Gathers information on the needs and expectations of internal and external customers.

Uses his technical expertise and familiarity with products to propose solutions tailored to customers.

Masters the basics of marketing.

	Farmalana .
www.mvdocpro.org	Founders :