

The professional profile of PhD-holders

Talha Zafar

Electrical & Electronics Engineer working in the field of physical chemistry and Material Sciences

This profile belongs to a dedicated researcher currently pursuing a PhD in spintronics, which explores the spin properties of electrons and their manipulation.

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Core business

PHASE 1 Skill development

Developing skills involves a proactive and strategic approach to personal and professional growth during my research. Identifying the career aspirations and setting ambitious goals aligned with my passions and abilities. By investing time and effort in expanding my knowledge, acquiring new competencies, and staying updated with the latest industry trends and technologies. Seeking new learning experiences, attending relevant workshops or conferences, pursuing certifications, and engaging in continuous professional development activities.

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

To master the basic knowledge and key concepts of spintronics field, understanding their historical significance and staying updated with recent advancements. Dedicating time and effort to master the fundamental knowledge and key concepts relevant to spintronics field. Engaging myself in reading scientific journals, attending conferences, and participating in professional communities to stay informed about the latest advancements, emerging trends, and cutting-edge research in their field

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.

Personal and relational qualities

*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.*

PHASE 1 Communication

Understanding the importance of structuring content, crafting compelling messages, and using visual aids to engage and persuade audience working on the same topic. Proficient in utilizing various mediums such as written documents, presentations, visual media, and online platforms to effectively convey information and engage their target audience.

*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 Analysis, synthesis and critical thinking

Critically analyze their own findings as well as those of their peers. Assess the quality and validity of information, identify patterns, detect inconsistencies, and draw meaningful conclusions during my experiments. Employ logical reasoning and evidence-based thinking to make informed judgments. Highlight the most relevant and impactful aspects, creating a comprehensive understanding that is easily communicable to others

*Analyzes his own findings and those of his peers.
Is able to synthesize; expresses key ideas clearly.
Can sort and rank information according to the goal.
Pursues his reasoning and hypotheses free of dogmatism or ideological bias.
Has the objectivity to consider various schools of thought; is able to modify his point of view.
Demonstrates intellectual rigor.*

PHASE 1 Open-mindedness and creativity

Receptive to different ideas and approaches, adapting thinking and behaviour when presented with new insights by reading different articles in my field. Embrace interdisciplinary activities, recognizing the value of integrating knowledge from diverse fields.

*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 Commitment

*Recognizes and can clearly identify his sources of motivation.
Is able to sustain his commitment and motivation in the face of setbacks and adversity.*

*Deals efficiently with the routine aspects of his job.
Strives for excellence; shows determination.
Learns from his mistakes and bounces back from failures.
Relies on the support and assistance of his peers.*

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