

The professional profile of PhD-holders

Alexandros Petropoulos

PhD Student

PhD student at Université de Haute-Alsace on a collaboration between IS2M (Mulhouse, France) and ISIS (Strasbourg, France), working on the development of polymers for data storage.

alexandros.petropoulos@uha.fr

LinkedIn : <https://www.linkedin.com/in/alexandros-petropoulos-401a97205/>

Core business

PHASE 2 Skill development

During my academic journey I managed to develop my skills in various chemistry domains including organic, inorganic, analytical and physical chemistry along with their accompanying characterization methods. Apart from these domains I also took interest in Food Chemistry and Industrial Chemistry, allowing me to better comprehend the fundamentals of each domain through experimentation. I also had the chance to participate in different projects which gave me the ability to develop new skill in a short time frame.

PHASE 1 Evaluation

Being a chemist means that I need to have experimental, process, safety and data evaluation along every step of my research projects.

PHASE 1 Information management

Information management comes down mainly to organization. With the right research approach on specific databases this skill is crucial in the career of a chemist. Lab notebooks which keep a record of all the experimental work carried out both in the lab and in the office is one of the main ways of information management among me and my colleagues.

PHASE 1 Expertise and methods

Through my Bachelors, Masters, and currently during my PhD thesis I managed to gain an expertise in different subjects of chemistry through literature research, continuous experimental set-ups, presentations and fruitful conversations with experts of the subject.

Personal and relational qualities

PHASE 3 Communication

Being able to fluently speak 4 languages gave me the opportunity to communicate with numerous people across the world on many different subjects. Amongst them scientific ones were the most intriguing and allowed me to sharpen my skills when it comes to communicating my ideas and concerns to colleagues and collaborators.

PHASE 2 Collaboration

My PhD is a collaboration between 2 different laboratories in 2 different cities, which means I have to bridge 2 different domains of chemistry together and collaborate smoothly with a lot of people from both laboratories.

PHASE 2 Analysis, synthesis and critical thinking

My analysis skills were obtained through data interpretation of numerous experiments that were conducted during my academic journey, as well as problem identification, for the times the results were different than what we expected. As for my synthesis skills, after conducting various syntheses of different compounds I can say that I am confident to work in any lab environment. Lastly, through research, evaluation and experimental testing, I managed to gain experience in the evaluation of these processes and sharpen my decision making and critical thinking.

PHASE 2 Open-mindedness and creativity

As much as I am interested from my current PhD topic, other fields of science also intrigue me and inspire me sometimes regarding my own work. Another factor that weighs in is also the fact that I am currently doing my thesis abroad, which is helping me explore a culture other than my own.

PHASE 2 Commitment

PHASE 1 Integrity

PHASE 1 Balance

PHASE 2 Listening and empathy

PHASE 2 Negotiation

Business management and value creation

PHASE 1 Project management

PHASE 1 Managing change

PHASE 2 Managing risks

PHASE 2 Decision-making

PHASE 1 Producing results

Strategy and Leadership

PHASE 1 Strategy