



Chemical Sciences - V.P. POSITION

DESCRIPTION OF THE PHD PROGRAM

The Doctoral Programme in Chemical Sciences, open to any student possessing a suitable Master degree (or an equivalent one obtained abroad), aims at equipping the Ph.D. student with the expertise necessary to carry out highly qualified research activities in the various areas of Chemistry at universities and other public or private research institutions. The Doctorate Board is composed of members of the scientific community from the Department of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), and comprises internationally recognized research groups that are actively working in the fundamental sectors of chemistry such as Analytical, Physical, Inorganic, Industrial and Organic Chemistry. A description of the current research projects of the working groups of the SCVSA Department in the field of chemical science is provisionally available at <http://www.dipchimica.unipr.it/en/research/research-areas>.

DESCRIPTION OF THE SCIENTIFIC FIELD & VISITING PROFESSOR PROFILE

The development of electronics- and photonics-based technologies is a strategic field for many industries. Specifically, the competences developed in the fields of molecular recognition and sensors development at the Doctorate in Chemical Sciences could receive a significant impulse thanks to the presence of new competences for the development of bio-electronic and bio-photonic systems, with substantial impacts in the fields of biomedical diagnostics and quality control, food safety and authenticity. We therefore require, as a Visiting Professor, a high-profile person with great international experience that would be able to create in Parma a centre of excellence, especially for the application of sensors in the field of food, a strategic area for the University of Parma. We would propose the opening of a position for candidates with internationally recognized competences in the field of Studying Bio-photonic and Bio-electronic systems.

DESCRIPTION OF THE DIDACTIC ACTIVITIES OF THE VISITING PROFESSOR

The Visiting Professor would be required to act as a supervisor in co-supervision for at least one PhD student, guiding him or her in their training in the experimental techniques and hosting the student at their home laboratory in order to introduce new frontier technologies at the Parma University's Chemistry labs. The didactic activity shall comprise teacher-led lessons for the Science and Technology Doctoral School students, especially ones from the PhD programmes in Chemical Sciences and Materials Science and Technology; the lessons would be open to PhD students of the doctoral schools in the fields of Physics, Engineering, Biology and Food science, as well. The Visiting Professor would be, furthermore, required to have seminars and interactive activities dedicated to the PhD students aimed at developing the competences in the fields of technology transfer and competitive research, with special focus on the capacity to prepare research projects in collaboration with the companies and research centers.

Presence at the University of Parma: at least 3 weeks/year
