

<b>CHEMICAL SCIENCES</b>		
<b>Cycle</b>	<b>XXXI</b>	
<b>Duration</b>	3 years	
<b>Supervisor</b>	Prof. Roberto Cammi – Department of Chemistry E-mail: <a href="mailto:roberto.cammi@unipr.it">roberto.cammi@unipr.it</a>	
<b>Research Topics</b>	<ol style="list-style-type: none"> <li>1. Innovative synthesis for environmental protection.</li> <li>2. DNA/RNA recognitions; pharmaceutical, diagnostic and nano-biotechnological applications.</li> <li>3. Engineering and study of crystal forms of compounds related to the human health, environment and nutrition.</li> <li>4. Metallic complexes of biological interest.</li> <li>5. Multivalent systems for nanotechnological applications.</li> <li>6. Innovative materials based on metallocrown</li> <li>7. Study of metal clusters and their applications</li> </ol>	
<b>Training objectives</b>	The training program aims to provide to the PhD. in Chemical Sciences the skills necessary for managing advanced research projects in the fields of analytical chemistry, general and inorganic chemistry, physical chemistry, industrial chemistry, and organic chemistry. The Doctorate of Chemical Sciences requires each student to operate within one of the research groups at the Department of Chemistry, and to follow a specific training program within the chosen sector, also through participation to research activities in other qualified centers in Italy and abroad, attendance of national and international schools and conferences, and through the publication of the scientific results achieved on international journals. There will also be interdisciplinary educational activities aimed to develop the ability of PhD students to explain, discuss, disclose the subject of their work both in academic and industrial environments and also more generally in society.	
<b>Academic degree required</b>	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent	
<b>Positions put out to competition</b>		
<b>With scholarship</b>	<b>7</b>	
<b>Reserved to employees of companies having a "Industrial Engineering Doctorate" arrangement</b>	<b>1</b>	
<b>TOTAL</b>	<b>8</b>	
<b>Scholarship types</b>	<b>No.</b>	<b>Description</b> (funding entity and research topic, if any)
	<b>3</b>	Scholarships of the University of Parma
	<b>1</b>	Funded by the Department of Chemistry
	<b>2</b>	Funded by the Department of Chemistry within the Project SIR "AROMA TRIP-AROMATIC TRInuclear Palladium clusters as pivot to explore the domain of all---metal aromaticity, from fundamental knowledge on chemical bonding to catalysis "

	1	Co-funded by Fondazione Cariparma	
<b>Positions reserved for "Industrial Engineering Doctorate"</b>	<b>No.</b>	<b>Positions reserved to employees of:</b>	
	1	Chiesi Farmaceutici SpA	
<b>Admission procedures</b>	<b>Assessment of QUALIFICATIONS:</b> up to 40 points <b>ORAL EXAM:</b> up to 80 points  <b>Minimum score for ELIGIBILITY:</b> 70/120		
<b>Interview via teleconference for candidates residing abroad</b>	<p style="text-align: center;">THE ORAL EXAM MAY BE HELD  <u>VIA VIDEOCONFERENCE</u> FOR CANDIDATES RESIDING ABROAD.  <u>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH.</u>  (the relevant request shall be submitted using the form attached to the competitive examination announcement)</p>		
<b>List of QUALIFICATIONS to be submitted and their assessment</b>	<b>Graduation thesis</b>	Relevance of the graduation thesis to the research topics of the Doctorate Program <b>(mandatory qualification)</b>	Up to 15 points
	<b>Curriculum Vitae et studiorum and other qualifications</b>	Covering the candidate's university career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams sat and passed, with the relevant marks, as well as the final graduation mark <b>(mandatory qualification)</b>	Up to 15 points
	<b>Scientific publications</b>	Articles published in scientific journals with referee, Papers presented at conventions or meetings	Up to 5 points
	<b>Other qualifications</b>	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the doctorate program and at describing his/her specific research interests	Up to 5 points
<b>Foreign language</b>	Language the fluency of which shall be assessed during the Oral Exam: <b>ENGLISH</b>		
<b>Schedule of the admission exam</b>	<b>ORAL EXAM DATE:</b> 18 September 2015 <b>TIME:</b> 9:30am <b>PLACE:</b> "Sala Ferrari" of the Department of Chemistry Parco Area delle Scienze, 17/A – 43124 PARMA, ITALY		
<b>Oral Exam topics</b>	The Oral Exam will be held in Italian or in English for foreign candidates. It will consist in a discussion on the qualifications submitted by the candidate, as well as in the assessment of his/her scientific background and research designing skills. The candidate's fluency in English will be assessed in terms of comprehension of scientific texts.		