

# Chemistry

<b>Cycle</b>	XXXVII
<b>Director</b>	Prof. Alberto Cavazzini – Department of Chemical, Pharmaceutical and Agricultural Sciences – <a href="mailto:alberto.cavazzini@unife.it">alberto.cavazzini@unife.it</a>
<b>Duration</b>	3 years
<b>Partner Institutions</b>	University of Wroclaw- Department of Chemistry (Poland)
<b>Curriculum</b>	1. Chemistry 2. Pharmaceutical Science and Food Chemistry
<b>Research Topics</b>	<a href="http://www.unife.it/studenti/dottorato/corsi/riforma/chemistry">http://www.unife.it/studenti/dottorato/corsi/riforma/chemistry</a>
<b>Qualification required for admission</b>	Italian degree known as “Laurea specialistica/magistrale” or a degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 November 1999, updated with D.M. n. 270 of 22 October 2004, n. 270; Master’s (second level) degree, or an equivalent foreign academic qualification awarded abroad.

## Available Positions

<b>Positions with Scholarship</b>	Regular positions	8
<b>Reserved positions for Candidates linked to a specific category</b>	Reserved positions for Candidates holding a scholarship funded by foreign Countries and/or linked to specific International Mobility Programmes.	<b>2</b>
	Reserved positions for employees of Companies active in high qualified activities (Industrial Doctorate)	1
<b>Total:</b>		<b>11</b>

## Kind of Financial Support

N°	Financial Support	Research Topic
4	Università degli Studi di Ferrara	
1	Co-financed by Dept. of Chemical, Pharmaceutical and Agricultural Sciences and Università di Ferrara	Nanostructured semiconductors for photoelectrosynthetic cells
1	Financed by Dept. of Chemical, Pharmaceutical and Agricultural Sciences	Materials for energy scavenging by contact electrification
1	Co-financed by CNR-ISOF and Università di Ferrara	Studies of aerosol reactions and related applications
1	Financed by Impact Science	Synthesis and biological evaluation of novel chiral beta hydroxy butyrate
1	Agreement with Impact Science (Industrial Doctorate. Reserved positions for employees engaged in high qualified research activities)	The safety, efficacy, and mechanism of action of novel beta-hydroxybutyrate molecules in preclinical studies with or without adjuvant/neoadjuvant therapies

## Assessment Criteria

**Evaluation of qualification:** maximum score 60 points. Minimum score required to be admitted to the interview 40/60 - **Interview:** maximum score 20 points - **Minimum final score required: 60/80**

During the interview, applicant’s knowledge of the following languages will be tested: English

## List of documents for the evaluation

<b>Education</b>	i) Curriculum Vitae et Studiorum; ii) Full academic record (bachelor and master’s degree) with certification or self-certification of taken courses and relative scores, plus final degree mark for graduate students. iii) Abstract of master’s degree thesis (max. 2 pages) containing motivations, research methods, expected/obtained results, essential bibliography. For candidates graduating within 31/10/2020, the abstract must be signed by the thesis supervisor. <b>N.B:</b> all documents must be provided in Italian or in English.	Up to 30 points
<b>Research Project</b>	The project (max 3 pages) - in English or in Italian - describes an original proposal for a research topic. Basically, it should include state of the art, relevance of the topic, expected results. The research project will not be binding for activities developed during the PhD program	Up to 20 points
<b>Statement of research interest</b>	Short text (max 1 page) in English giving personal motivations to attend the PhD program and candidate research interests.	Up to 8 points
<b>Other qualifications</b>	Scientific publications; participation to meetings. Academic, professional qualifications; language certificates. Training periods	Up to 2 points

### Interview

The interview, in Italian or in English, will revolve around research project, master's degree thesis and CV information.

### Examination Timetable

Evaluation of qualifications and interview will take place in September 2020.

Evaluation of qualifications will be published at the following webpage:

<http://www.unife.it/studenti/dottorato/concorsi/selection>

Information regarding when evaluation of qualifications will be published and the schedule of interviews will be given in due time at <http://www.unife.it/studenti/dottorato/concorsi/commissioni>