ADMISSIONS AND REQUIREMENTS

There are two different ways to enrol in the PhD programme:

Method A - Through a competitive selection process based on the applicant's CV, academic transcripts, a written research project (to be submitted during the application stage) and an interview (which can take place also through networking freeware such as Skype). Each year about 10-15 students are granted a PhD position within DSCM and the most successful ones are awarded a scholarship for 3 years. There may be special fellowships specifically awarded to students who graduated abroad.

For detailed and updated information, including deadlines, grants and fees, please refer to the URL:
http://dottorato.unipi.it/index.php/en/

Method B - Candidates who are supported by international scholarships (e.g. Marie Curie action of the EC, non-EC funds) may be directly enrolled. For more information, please address the PhD secretary directly at: dottorato@dcci.unipi.it

Website
http://www.dcci.unipi.it/dottorato_dcci/dottorato-scienze-chimiche-materiali.html

Programme Coordinator
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UNIVERSITÀ DI PISA

DCCI Università di Pisa Dipartimento di Chimica e Chimica Industriale

DSCM Dottorato in Scienze Chimiche e dei Materiali

PhD Programme in Chemistry and Materials Science

UNIVERSITÀ DI PISA

The University of Pisa (UNIPI) is a public institution composed of twenty departments, with high level research centres in most disciplines of current knowledge.

Established in 1343, UNIPI is one of the most prestigious Italian higher education institutions and a modern centre for teaching and advanced research. International relations are one of the central missions of UNIPI and for this reason it welcomes students and researchers from other countries to establish long-term partnerships with universities, public and private research institutions from all over the world. With a current student population surpassing 54,000, UNIPI offers a large number of degree programmes taught in English and a variety of exchange programmes.

Study at the Department of Chemistry and Industrial Chemistry (DCCI)

The PhD Programme is based at the Department of Chemistry and Industrial Chemistry in Pisa. The DCCI permanent staff make up approximately 60 lecturers, researchers and professors, supported by over 15 technical engineers. It is equipped with modern laboratories and up-to-date facilities. It provides education at BSc and MSc levels enrolling about 600 students of Chemistry and Industrial Chemistry. The MSc course includes 9 months of training at the front line of fundamental and applied research.

The research activity at DCCI covers most areas of pure and applied chemistry, including: analytical chemistry, physical chemistry, industrial chemistry, inorganic and organic chemistry. Research is carried out in collaboration with international companies and institutions such as the National Research Council (CNR) and the EU. The Department also has contacts and exchanges with prestigious Universities worldwide, where professors and students can spend periods of time working and training.

COME AND THRIVE

- **Work in a lively scientific environment**
- **Establish a network of contacts and partnerships worldwide**
- **Gain an in-depth and insightful education**
- **Enjoy a positive and friendly work environment**
- **Benefit from a multicultural experience**

PROGRAMME OVERVIEW

The three-year PhD programme aims at training young graduates in Chemistry and Materials Science (DSCM) with a focus on both molecular aspects and nanosystems. The aim is to develop research projects in the most modern and advanced fields including theoretical and computational chemistry, thermodynamics and thermal analysis, NMR and optical spectroscopies, organic and inorganic synthesis, biologically active compounds, catalysis, nano and bio-materials, polymer sciences, sensors, cultural heritage, environment and health. In order to achieve this, students have access to both top-level education and to a network of collaborations within the academic and industrial communities. All the courses offered by DSCM are in English and are taught by outstanding researchers, working in the field of Chemistry and Materials Science.

OBJECTIVES

The main objective of the PhD programme is “learning through research”. Challenging scientific goals allows us to use our knowledge to develop innovative solutions and strategies, to use and devise advanced instruments. The PhD student will acquire a deep and robust knowledge of the theoretical and experimental methodologies of computational and advanced instrumental techniques for the study of molecular systems and nanomaterials. The PhD student will develop the capacity to carry out research independently whilst working together in a team. International networking will be well promoted, through the numerous collaborations with DCCI, and thanks to short or extended periods abroad.