



CEU

*Escuela Internacional
de Doctorado*



BASIC GUIDE

PhD Programme in
Science and Healthcare Technology



**“Technology and Health
are the engines of well-being”**



Welcome to the CEU International Doctoral School

The CEU International Doctoral School (CEINDO) brings together various research groups made up of doctors with accredited research experience. The faculty ensures high standards in the application of the tutoring system and the quality of doctoral training.

Early-stage researchers registered at CEINDO will be assigned to one of the established research groups. They will find the ideal environment to contribute to the process of updating knowledge, play a key role in the innovation of specialised areas of expertise, reveal their research results to society and establish relationships with relevant research centres in the international field.

The Doctoral Programme in Science and Healthcare Technology at the CEU San Pablo University and the CEU Cardinal University seek to enhance the training of students who wish to study health science and technology in depth, to meet the growing demand for trained personnel in this sector. This is an industry that is increasingly in need of specialised cutting-edge technologies, better and safer medicine, and research in the field of prevention, treatment and healthy lifestyles.

It's foreseeable that there will be an increase in the R&D&I activity in pharmaceutical, biotechnology and agri-food companies in Spain and in our immediate environment in the medium-term future. These activities are dedicated to the development of technologies applicable to healthcare and the industrial sector that develop products for the improvement of health and well-being, thus making the training of specialists in the field a must.



BEATRIZ DE PASCUAL-TERESA FERNÁNDEZ
Program Coordinator



ANTONIA GARCÍA FERNÁNDEZ
Secretary



JOSÉ TERRADO VICENTE (CEU UCH)
Deputy Programme Coordinator

ACADEMIC COMMISSION

This Academic Commission is composed of a team that oversees the quality, updating and coordination of the programme, in turn responsible for its definition and must ensure that the quality and coordination are up to date. The Academic Commission members supervise the progress in research, the training of researchers and authorise the submission of doctoral theses.

ADMISSION CRITERIA

The Academic Commission is responsible for the admission of applicants in accordance with the criteria established by the Academic Report and current legislation.

When the Commission deems it appropriate, the researcher-in-training will attend complementary training in addition to the compulsory training activities.

ACADEMIC COMMISSION

ACADEMIC COMMISSION COORDINATOR:

BEATRIZ DE PASCUAL-TERESA FERNÁNDEZ · bpaster@ceu.es

DEPUTY COORDINATOR (CEU UCH):

JOSÉ TERRADO VICENTE · jtterrado@uchceu.es

SECRETARY:

ANTONIA GARCÍA FERNÁNDEZ · antogar@ceu.es

RESEARCH LINE COORDINATORS:

FLAVIANO GARCÍA ALVARADO · flaga@ceu.es

RESEARCH LINE 1. Electronic and electrochemical technologies in health and environment.

IGNACIO PÉREZ ROGER · iperez@uchceu.es

RESEARCH LINE 2. Molecular and metabolic bases of disease.

AGUSTÍN PROBANZA LOBO · a.probanza@ceu.es

RESEARCH LINE 3. Biotechnology of plants and micro-organisms.

ELENA ALONSO APERTE · eaperte@ceu.es

RESEARCH LINE 4. Food safety, nutrition and food technology.

ANA M^a RAMOS GONZÁLEZ · aramgon@ceu.es

RESEARCH LINE 5. Pharmaceutical drugs and medicine discovery, development and evaluation.

JUAN JOSÉ QUEREDA TORRES · juan.quereda@uchceu.es

RESEARCH LINE 6. Human and animal health and pathology.

FEDERICO GUILLÉN SALAZAR · fguillen@uchceu.es

RESEARCH LINE 7. Structural and functional bases of biological systems.

POSTDOCTORAL ADVISORS:

CONSUELO MONTEJO RUBIO · montejo@ceu.es

JOSÉ TERRADO VICENTE (CEU UCH) · jtterrado@uchceu.es

DURATION OF STUDIES

(Starting from admission to the programme to the submission of the doctoral thesis)

FULL-TIME STUDENTS

The duration of the doctoral studies on a full-time basis is three years from the student's admission to the programme to the submission of the thesis. (if the application for the deposit of the thesis has not been submitted within the above-mentioned time limit, the Commission responsible for the programme may authorise an extension of this period for another year, which could then also be exceptionally extended for an additional year).

In any case, the defence of the doctoral thesis may not be carried out before two years have elapsed from the date of admission and always with the express approval of the Academic Commission.

PART-TIME STUDENTS

The length of the doctoral studies on a part-time basis is a total of five years starting from the student's admission to the programme to the submission of the doctoral thesis (if the application for the deposit has not been submitted by the expiry of that period, an extension for another two years may be granted, and under exceptional circumstances, another extension for a further year may be authorised).

The defence of the doctoral thesis may not take place before four years have elapsed from the date of admission and always with the express approval of the Academic Commission.

Part-time commitment may be requested by those who carry out professional or work activities that prevent them from devoting full time to their doctoral studies and by those who have other circumstances that prevent them from doing so as per the opinion of the Commission.

When these circumstances cease to exist, and upon request, full-time studies may be granted.





RESEARCH LINE 1. ELECTRONIC AND ELECTROCHEMICAL TECHNOLOGIES IN HEALTH AND ENVIRONMENT

Line Coordinator: FLAVIANO GARCÍA ALVARADO

This line of research delves into the development of transversal technologies with an impact on devices that improve the technological aspects of equipment and reduce the environmental impact of human activity by improving the quality of the environment and health.



RESEARCH LINE 2. MOLECULAR AND METABOLIC BASES OF THE DISEASE

Line Coordinator: IGNACIO PÉREZ ROGER

In this line of research, projects related to metabolomics and disease-causing molecular alterations are developed, as well as the molecular alterations that cause diseases, the development of techniques, tools, and methodologies to carry out these studies.



RESEARCH LINE 3. PLANT AND MICROORGANISM BIOTECHNOLOGY

Line Coordinator: AGUSTÍN PROBANZA LOBO

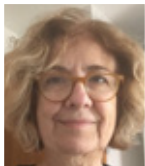
This line of research focuses in on biotechnology applied to plants of pharmaceutical or food interest and to the environment. It studies the effect of plant-microorganism interaction on plant metabolism, soil, its microbial components and ecophysiological basis of the interaction.



RESEARCH LINE 4. FOOD SAFETY, NUTRITION AND FOOD TECHNOLOGY

Line Coordinator: ELENA ALONSO APERTE

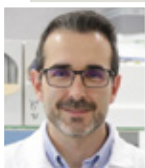
This line addresses, first and foremost, integrated food safety in the food chain as well as the knowledge of food, through its composition and properties, and the impact of new forms of production and marketing. It also includes nutritional assessment and the study of nutritional problems in the different stages of life, physiological situations, in both traditional and emerging pathologies. The molecular basis of human nutrition, nutrient-nutrient, nutrient-drug and gene-environment interactions are also of priority interest in this line.



RESEARCH LINE 5. DRUG AND MEDICINE DISCOVERY, DEVELOPMENT AND TESTING

Line Coordinator: ANA M^a RAMOS GONZÁLEZ

This line of research is oriented towards different aspects of drug discovery. It is made up of groups dedicated to organic design and synthesis, 3D structures studies and intermolecular interactions by NMR and computational methods, all geared towards the search for new active compounds. In addition, there are groups working on pharmaceutical and regulatory development, the automation of drug testing and control, and on new pharmaceutical testing methodologies.



RESEARCH LINE 6. PATHOLOGY, HUMAN AND ANIMAL HEALTH

Line Coordinator: JUAN MANUEL CORPA ARENAS

This line brings together researchers working in diverse areas such as parasitology, microbiology, pathological anatomy, immunology, surgery, anaesthesiology, and diagnostic imaging. The common link among all of them is the improvement of health as they focus on the study of multiple aetiological agents, as well as the diagnosis, pathogenesis, lesions, treatment and clinical management of various diseases and pathological processes affecting both animals and humans.



RESEARCH LINE 7. STRUCTURAL AND FUNCTIONAL BASES OF BIOLOGICAL SYSTEMS

Line Coordinator: FEDERICO GUILLÉN SALAZAR

The line deals with basic research aimed at understanding the structural and functional bases that govern biological systems, e.g., dynamics of social systems, tissue repair strategies in the central nervous system, effect of mycotoxins on the central nervous system, adult neurogenesis, etc.

ORGANISATION

1. MENTOR AND THESIS ADVISOR

Each student enrolled will be assigned a mentor and a doctor with accredited research experience linked to the programme, who will be responsible for the training at the beginning of his/her studies.

The Academic Commission will appoint the doctoral thesis advisor within a period of three months, who will guide the researcher during his or her training period until the defence of the thesis. This ensure the originality, coherence and suitability of the research plan and guides the researcher in the planning of tasks and activities.

The peer mentor and advisor should preferably fall on the same person.

The Commission may authorise the co-direction of the thesis and a change of advisor.

2. DOCUMENTARY COMMITMENT

Once enrolled in the Doctoral Programme the student will proceed to sign the documentary commitment. It will be signed by the trainee researcher, his/her mentor, thesis advisor(s), and then by the Director of CEINDO.

The documentary commitment sets out the rights and duties of the researcher, mentor, and thesis advisor(s), as well as the Institution represented by the Director of CEINDO, committing all of them to comply with the code of good practices.

3. TRAINING COMPLEMENTS

In cases where the researcher-in-training does not have previous training to access this Doctoral Programme, admission may be conditional to completion of training complements that the Academic Commission may determine on a case-by-case basis.



4. TRAINING ACTIVITIES

All trainee researchers must participate in and pass all mandatory compulsory training activities planned within the framework of the Programme, as well as ones that they have taken on their own initiative, or as per the indication of their advisor(s).

The training activities in which the researcher participates will be recorded in the activity logbook. They must be supported by a document accrediting the successful completion and/or participation in the activity.

7. ANNUAL EVALUATION

The Academic Commission annually evaluates the activity of the researcher in training. To this end directors and researchers must upload the following documentation on SIGMA by the indicated date:

5. RESEARCH PLAN

Before the end of the first year, research trainees will develop a research plan that includes background, objectives, methodology, bibliography and a provisional schedule, which must be endorsed by the thesis advisor.

This document will be updated annually, and include the results obtained in the evolution of the research, the fulfilment of the timetable and the thesis schedule.

1. Certificates of the activities passed.

2. The research plan.

3. The report of the thesis advisors.

In the event of a negative evaluation - duly substantiated - the work of the researcher in training will be re-evaluated

6. PRE-DOCTORAL DAY

At the end of each academic year, trainee researchers will publicly defend the research carried out during the year in front of an examining board made up of professors.

Once the defence has been completed, the examining board will review and evaluate the work conducted. If a negative evaluation ensues on two, separate annual predoctoral days, a definite withdrawal from the programme will take place.

within a period of six months at the latest, by which time he/she must update the above-mentioned documents. In the event of another negative evaluation, the researcher will ultimately be withdrawn from the Programme.

TRAINING ACTIVITIES

FULL-TIME COMMITMENT

1st year

Advanced search techniques and documentation management applied to research

Evaluation and assessment of scientific production

Ethical use of scientific documentation



PART-TIME COMMITMENT

1st year

Advanced search techniques and documentation management applied to research

Evaluation and assessment of scientific production

Ethical use of scientific documentation

2nd year

Advanced search techniques and documentation management applied to research

Evaluation and assessment of scientific production

Ethical use of scientific documentation



ANNUAL ACTIVITIES

(Mandatory for all students regardless of their year and dedication)

Pre-doctoral day

Work meetings with advisor(s)

TRAINING COMPLEMENTS

The academic commission will determine the complementary training activities (courses, research work) for each case

ELECTIVE ACTIVITIES OPTATIVAS

(Offered to all students, regardless of their year and dedication)

Attendance at seminars or research conferences on subjects related to the doctoral programme

Regular seminars

Bibliographic seminars

Attendance at conferences

Bioethics/animal experimentation seminar

Training courses in experimental techniques

Transfer of research results

Visits to companies or research centres

Work placements in companies (depending on availability)

Teaching in practical laboratories

Mobility in an international research centre

Convocations for research grants: national and European competitive projects

Writing and publication of a review or popular science paper



DOCTORAL THESIS. DEPOSIT AND DEFENCE

1. PRE-REQUISITES FOR THE DEPOSIT APPLICATION

- A favourable report from the thesis advisor(s).
- Completion of all compulsory training activities (and complementary training if required).
- The achievement of the required scientific productivity, whereby the author must necessarily identify himself/herself as a CEINDO student in signing the corresponding publication.
- Completion of a research stay of at least one month in a centre other than the one where the student is conducting his/her doctoral thesis (in the case of wanting to access the International Doctorate Mention, the minimum stay must be three months in a centre outside the national territory) during the period the student is enrolled in the programme.

2. APPLICATION FOR THE DEPOSIT OF THE DOCTORAL THESIS

The interested party will submit the following documentation to the Director of CEINDO who will immediately pass it on to the Academic Commission:

- a. Deposit application with the approval of the thesis advisor(s).
- b. Applicant's CV
- c. Personalised activity notebook, countersigned by the advisor, which must state that the stay has been carried out in a research centre as foreseen in the corresponding Programme Report and approval of the commission
- d. One bound copy of the doctoral thesis and another in electronic format.
- e. A list of five candidates (or three as appropriate), plus two substitutes, who will form part of the of the selection board and whose CVs must be attached. This list must be approved by the advisor(s) of the doctoral thesis.
- f. A copy of the publications derived from the doctoral thesis approved by the academic commission.
- g. If the PhD student aspires to obtain the International Mention to the title of Doctor, the following must be submitted: reports from two international experts in the field and documentation accrediting that the doctoral student meets all the requirements established in point 1 of art. 15, RD 99/2011.

The Academic Commission will communicate the approval of the deposit to the CEINDO Director, which will mark the start of the 15-day working day period of the deposit and public exposition. The interested party, the thesis advisor/s and the members of the examining board will be informed.

- As soon as the doctoral student has received this communication, he/she must send each member of the panel:
 - » A copy of the thesis in the format indicated.
 - » CV
- Once the members of the examining board have received the copy of the thesis, they must issue a reasoned report within a period of 15 calendar days, indicating whether the thesis meets the necessary conditions to be presented for defence.
 - » A copy of the publications derived from the doctoral thesis.
 - » A Personalised Activity Document that is approved by the Director(s) and the Academic Commission.

3. DEFENCE AND GRADING OF THE DOCTORAL THESIS

- The defence will take place in a public session and will consist of a presentation by the PhD student of the preparatory work carried out, the methodology, the content and conclusions of the thesis with special mention of the original contributions to the subject under study.
- At the end of the thesis defence, and after deliberation and voting in closed session, the examining board will award the overall grade of NOT APPROVED, APPROVED, NOTABLE or EXCELLENT.



RESEARCH FACULTY

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DEBORAH CHICHARRO ALCÁNTARA
JOAN CLIMENT BATALLER
CLAIRE CODERCH BOUÉ
MANUEL CORPA ARENAS

BEATRIZ DE PASCUAL-TERESA
M^a AUXILIADORA DEA AYUELA
CARMEN DEL ÁGUILA DE LA PUENTE
NURIA DEL OLMO IZQUIERDO
LUIS ALBERTO DEL RÍO ALVAREZ
ROSANA DOMINGO ORTIZ
GEMA DOMÍNGUEZ MARTÍN
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SOLEDAD FENOY RODRÍGUEZ
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CARLOS GARCÉS NARRO
FLAVIANO GARCÍA ALVARADO
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ÁNGEL GARCÍA MUÑOZ
EMPAR GARCÍA ROSELLÓ
MAGDALENA GARIJO TOLEDO
BENITO GARZÓN SÁNCHEZ
MARTA GIL ORTEGA
ANGEL GÓMEZ MARTÍN
OLGA GÓMEZ RODA
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ROBERTO ALONSO GONZÁLEZ LEZCANO
CARMEN GONZÁLEZ MARTÍN
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IGNACIO PÉREZ ROGER
ENRIC POCH JIMÉNEZ
MARÍA JOSEFA POLANCO MORA
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ANA MARÍA RAMOS GONZÁLEZ

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JOSÉ MARÍA ZAPICO RODRÍGUEZ

CONTACT DETAILS AND INFORMATION

You can access detailed information about the different Doctoral Programmes at the CEU International Doctoral School CEINDO on its website:

www.escueladoctorado.ceu.es

For further information, please contact the School's e-mail address:

info.ceindo@ceu.es

Request information regarding CEINDO :

<https://servicios.ceu.es/ceuCeindo/Publico/Solicitarinformacion.aspx>

CEINDO Admission Application:

<https://servicios.ceu.es/ceu-Ceindo/Publico/SolicitarAdmission.aspx>

APPLICABLE REGULATIONS

<https://www.escueladoctorado.ceu.es/conocenos/normativa/>
<https://www.escueladoctorado.ceu.es/conocenos/calidad/>



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