



SEVILLE INTERNATIONAL GRADUATE SCHOOL

Success in the relation of companies and universities: Endowed Chairs



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The number of PhD students increases every year:
more than 40% in OCDE between 1988 and 2006

Is the society prepared to
integrate so many doctors?

Intersectoral mobility as key
point



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Published online 20 April 2011 | *Nature* **472**, 276-279 (2011) | doi:10.1038/472276a

News Feature

Education: The PhD factory

The world is producing more PhDs than ever before. Is it time to stop?

David Cyranoski, Natasha Gilbert, Heidi Ledford, Anjali Nayar & Mohammed Yahia

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Column: World View

Reform the PhD system or close it down



There are too many doctoral programmes, producing too many PhDs for the job market. Shut some and change the rest, says Mark C. Taylor.

Mark Taylor

The system of PhD education in the United States and many other countries is broken and unsustainable, and needs to be reconciled. In many fields, it creates only a cruel fantasy of future employment that promotes the self-interest of faculty members at the expense of students. The reality is that there are very few jobs for people who might have spent up to 12 years on their degrees.

Most doctoral-education programmes conform to a model defined in European universities during the Middle Ages, in which education is a

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ENTREPRENEURSHIP

Promotion of strong partnerships Through Endowed Chairs with the Industry and public administration

Through research contracts with industry managed by the Research Foundation of the University of Seville

Through Public-private partnerships in H2020 projects and other international projects promoted by the International Projects Office of the University.



ENDOWED CHAIRS

Endowed Chairs are aimed to promote research in topics of interest for the economy and society of countries, singularly, Spain and Andalusia. The University of Seville has now 31 Chairs in different areas, including Science, Engineering and Humanities. They endow part of doctoral education.

This approach fosters relationships between the business world and the cutting edge research and knowledge generated in the University. Endowed chairs also contribute to the education of future professionals in areas of work and research related to the imparted lectures.



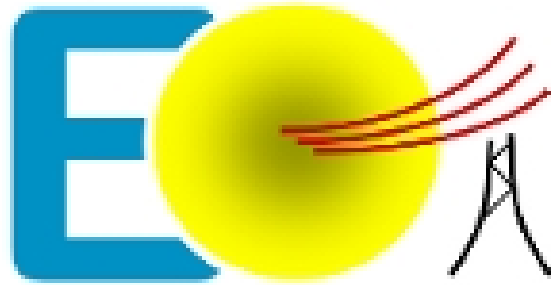


Regarding research and development activities, endowed chairs encourage research of excellence and promote the realization of PhDs in the area.

As an example, the “Cátedra del Agua” works on identifying new technological challenges, jointly established by the **water resource management** company and research groups of the US.



Cátedra



Endesa Red



In another case, the “Cátedra Endesa Red” focuses on the promotion of interdisciplinary teaching and research activities related to the generation, distribution and marketing of **electrical energy**, paying attention on the multidisciplinary training of students of the University of Seville on these matters.

Awards outstanding students and supports master's and doctorate studies allowing access, through the 'Aula de la Luz', to national and foreign researchers at the highest level in the energy sector.

Sevillian students have received their respective awards for the works “**Analysis of the balance in low voltage distribution networks**” and “**Design of a tool to help assess the acoustic impact of Windfarms**”.



The EADS Chair of 'Aerospace Studies' at the School of Engineering of the University of Seville (ETSI Seville) has been founded for promoting collaborations between EADS and the University of Seville (US) in the area of Aerospace Engineering. This chair is involved in training courses included in Masters of Sciences studies using the most advanced technical methods, the development of joint US-EADS engineering projects in technological lines of common interest, and the dissemination of scientific and technological accomplishments in the field.





Indra



The Indra Digital Society Chair was created at the University of Seville with the purpose of promoting interdisciplinary teaching and research activities related to **Information and Communication Technologies (ICT)** . This chair analyses the problems and perspectives arising from the development and deployment of new technologies in the field.



Cátedra
ECONOMÍA DE LA ENERGÍA Y DEL MEDIO AMBIENTE

This “green” chair came up after an agreement between the University of Seville and the **Andalusian Energy Agency** to assess the socioeconomic impact of the power plants needed to fulfill the objectives of the “Andalusian Plan for Sustainable Energy”. The main focus is on the exploitation of renewable energy resources for an efficient, theoretically inexhaustible, power distribution model in Andalusia.

Lasts publications:

Testing EKC for Urban Water Use: Empirical Evidence at River Basin Scale from the Guadalquivir River, Spain.

A tool proposal to detect operating anomalies in the Spanish wholesale electricity market

Measures to promote renewable energies for electricity generation in Latin American countries



STRATEGIC RESEARCH PLAN



One salient line in the Strategic Research Plan of the University of Seville is to promote the co-founding of doctoral students which develop their research in companies under the supervision of research groups at the university.

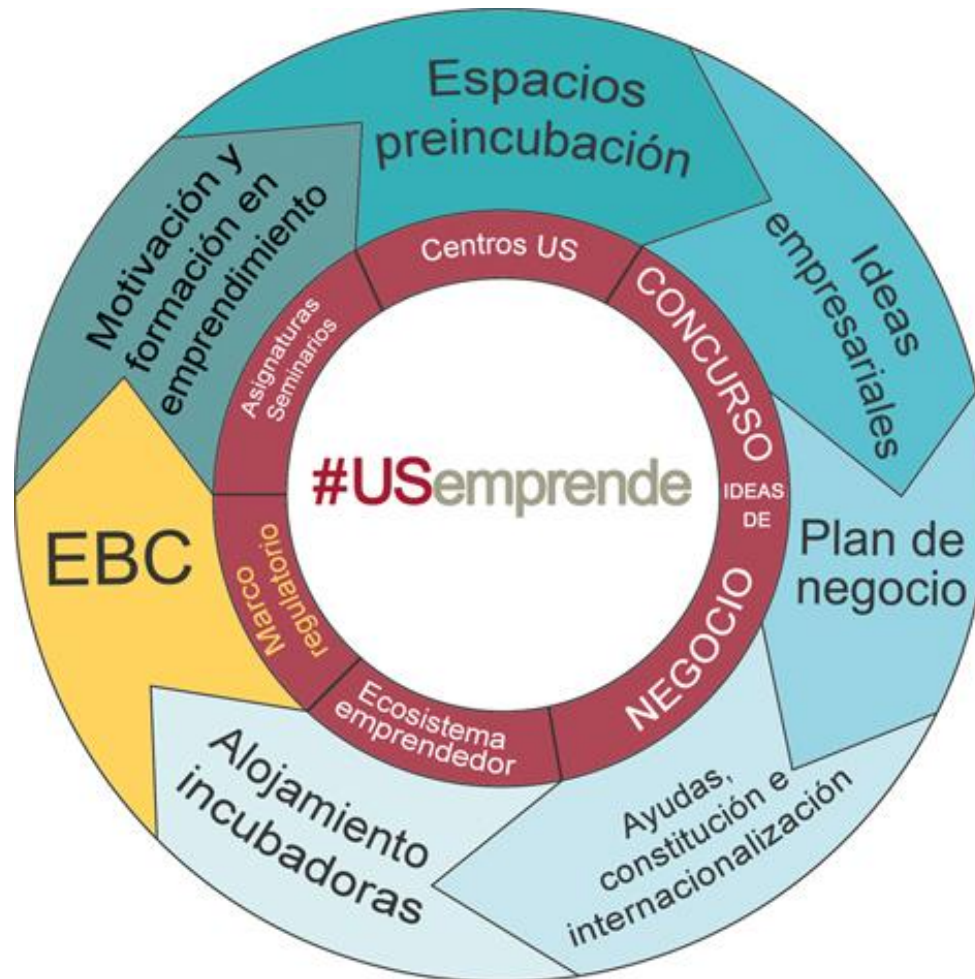
The university returns to the company 30% of the student's salary to cover research expenses.

A PhD student obtains the special mention of "Doctorado Industrial" when research has been developed in collaboration with any external institution, company, industry, association, etc.



KNOWLEDGE TRANSFER

University of Seville (US) *Emprende*



It is the unit of the Knowledge Transfer and Entrepreneurship Service that organizes all the activities related to the promotion of entrepreneurship spirit and the leveraging of the entrepreneurship capacity of all members of our university,



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LEVERAGING STUDENT'S IDEAS



LEVERAGING FOR FEMALE STUDENTS



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