

## EMJD-DC

### Joint Doctorate in Distributed Computing

**Duration:** 48 months

**Course description:**

The EMJD in Distributed Computing (EMJD-DC) is an International joint Doctoral School in Distributed Computing. EMJD-DC combines a well-structured, interdisciplinary training programme with high quality research work in leading research groups from four universities and countries: UPC (Spain), KTH (Sweden), IST Lisbon (Portugal), and UCL (Belgium).

EMJD-DC intends to become a permanent reference model for international doctoral studies in Distributed Systems and beyond. Students will carry out their research work over up to four years in two universities from different countries, with additional mobility to industry in most projects. Joint training schools will cover both scientific topics and transferable skills, such as project and scientific management, communication, innovation techniques. EMJD-DC will initially award double degrees, however a task will study pathways to the implementation of a Joint Degree.

The research projects address some of the key technological challenges of our time, mainly but not exclusively: ubiquitous data-intensive applications, scalable distributed systems (including Grid and Cloud computing, and P2P models), adaptive distributed systems (autonomic computing, green computing, decentralized and voluntary computing), and applied distributed systems (distributed algorithms and systems, working in an inter-disciplinary manner, in existing and emerging fields to address industrial and societal needs in the European and worldwide context.

The consortium partners assembled in EMJD-DC have a high international reputation in the research fields described above. They complement each other very well in their specialisation fields of research, and in the corresponding training offers. The first language of all training and research activities will be English, but students will also be exposed to local languages.

The consortium has a strong track record of participation in international projects for research and education, and in particular with each other. Three consortium members already collaborate in the Erasmus Mundus Master in Distributed Computing. The majority of partners are also participants in the ERCIM consortium, all belong to the Cluster University network, and several EU Research Projects. EMJD-DC is supported by several labs with direct links with the industry, mainly the Barcelona Supercomputing Center (BSC), the Swedish Institute of Computer Science (SICS), the Centre of Excellence in Information and Communication Technologies (CETIC), INESC and several industrial labs such as Telefonica Research (TID), Ericsson, and SME as Euranova and Peerialism.

**Website:** <http://emjd-dc.eu>

**Partners:**

UPC BarcelonaTech - UPC, Spain (Co-ordinating institution)  
CATHOLIC UNIVERSITY OF LOUVAIN – UCL, Belgium  
TECHNICAL INSTITUTE – IST, Portugal  
ROYAL INSTITUTE OF TECHNOLOGY – KTH, Sweden

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