

**\*\* 6 PhD positions \*\***

The ABC-EU-XVA project is a European Industrial Doctorate (EID), funded within the Horizon 2020 framework. The project aims to address significant challenges arising from the mathematical modelling of valuation adjustments (XVA), within quantitative risk management.

The ABC-EU-XVA project is a Marie-Curie initiative in which six Early Stage Researchers (ESRs, i.e. PhDs) will work closely with industrial partners on a PhD thesis about the mathematics of XVA.

The universities involved are:

Université' Libre de Bruxelles (ULB),

Università' degli Studi di Bologna (UNIBO),

Universidade da Coruna (UDC),

Delft University of Technology (TU Delft)

Dutch National Research Institute for Mathematics and Computer Science (CWI).

The industrial partners include international players like Belfius Bank

(BE), Unipol Gruppo Spa (IT), Abanca Corporación Bancaria (ES), Banco Santander (ES), EY (NL) and Rabobank (NL).

ESR 1 (TU Delft - CWI - ABANCA): Detailed modelling of WWR in CVA

ESR 2 (CWI - TU Delft - Belfius Bank): Managing portfolio XVA: MVA

Sensitivities, KVA under Q and P

ESR 3 (UDC - EY): XVA in the context of PDE and hybrid modelling

ESR 4 (UDC - Unipol Gruppo Spa): XVA in a multi-currency setting

ESR 5 (ULB - Rabobank): Incremental CVA and Collateralised VA (CollVA)

ESR 6 (UNIBO - Santander): Unified model for XVA, including WWR, FTD and Rating

Potential candidates have a master degree in applied

mathematics,  
statistics, quantitative finance, econometrics,  
physics or computational sciences (with specialisation in  
computational  
finance). They have a strong interest in  
financial mathematics and are willing to further increase  
their  
knowledge of finance, stochastics and numerical  
methods.

Preferred qualifications for candidates include excellent  
grades,  
research talent (as proven by the master thesis),  
affinity with the financial world and personal ambition.

Candidates are expected to have and prove an excellent  
command of  
English, together with good academic writing and  
presentation skills.

Curiosity and flexibility to travel (and live) in different  
countries  
are important aspects for the current PhD positions.

For more details and to apply, the interested candidates  
may visit the  
project website: [abc-eu-xva.info/welcome](http://abc-eu-xva.info/welcome)

Deadline: January 15, 2019.