Theoretical Chemistry and Computational Modelling

From 2015-01-01 to 2018-12-31, closed project | TCCM Website

Objective

Theoretical Chemistry and Computational Modelling (TCCM) is emerging as a powerful tool to help in the rational design of new products and materials for pharmaceutical, chemical, energy, computer, and new-materials industries. To achieve this goal, it is necessary to go beyond the traditional electronic structure studies, and merge complementary techniques that are normally not available at a single research group. The research programme of the TCCM-EJD aims at applying computational modelling to problems demanded by the industry and with high societal relevance, namely Materials with special properties, Biomolecules for new therapies and Energy storage. The objective of the Joint Doctorate is to prepare future research leaders, able to develop and use multidisciplinary computational techniques (methods and software), with solid communication skills, with many contacts established through the intensive relationship with worldwide leading researchers of 12 European universities and 14 additional partners, including 7 industrial and spin-off companies. A Joint Doctorate in TCCM is already operative since 2011, based on a fully participative scientific discussion and assessment of all research projects with a clear interdisciplinary character and the direct participation of the non-academic sector. The training programme puts the emphasis in common training, including 3 annual International Workshops, 3 schools on High Performance Computing and 3 tutorials in new computer codes. Career development opportunities are enhanced with regular inter-sectoral activities, transferable skill education and career coaching.

Related information

Report Summaries

Periodic Reporting for period 2 - TCCM (Theoretical Chemistry and Computational Modelling)
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EU contribution: EUR 454 433,76

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Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 365 586,87

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EU contribution: EUR 397 260,60

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46010 VALENCIA
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**Activity type:** Higher or Secondary Education Establishments

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EU contribution: EUR 247 872,96

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**Activity type:** Higher or Secondary Education Establishments

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EU contribution: EUR 240 987,60

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EU contribution: EUR 397 260,60

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution: EUR 240 987,60
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
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Last updated on 2017-07-24
Retrieved on 2019-08-07

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