

### I.3.1.15 Acuerdo 16/CG de 31-01-25 por el que se aprueba la adhesión y firma del Consortium Agreement del Erasmus Mundus Joint Master Theoretical Chemistry and Computational Modelling (EMJM-TCCM).

Elevada a este Consejo de Gobierno por parte de la Vicerrectora de Internacionalización, propuesta de Acuerdo de aprobación de firma y compromiso de adhesión al convenio Consortium Agreement del Erasmus Mundus Joint Master Theoretical Chemistry and Computational Modelling (EMJM-TCCM), previo informe favorable de la Comisión de Internacionalización de fecha 21 de enero de 2025, al amparo de los artículos 8 y 9.1 de la vigente Normativa sobre acuerdos y convenios internacionales de la Universidad Autónoma de Madrid con universidades o instituciones extranjeras (aprobada en el Consejo de Gobierno de 25 de junio de 2004), y artículo 46.2 h) de la Ley Orgánica 2/2023, de 22 de marzo, del Sistema Universitario; este Consejo de Gobierno, reunido en sesión ordinaria de 31 de enero de 2025, **ACUERDA** la firma y compromiso de adhesión al Consortium Agreement del Erasmus Mundus Joint Master Theoretical Chemistry and Computational Modelling (EMJM-TCCM), conforme texto literal que como **ANEXO** a continuación se inserta.

Lo que se acuerda y ordena publicar en el Boletín de la Universidad Autónoma de Madrid (BOUAM), para su constancia y efectos jurídicos procedentes.

El presente Acuerdo es definitivo y agota la vía administrativa, de conformidad con los artículos 38.4 de la Ley Orgánica 2/2023, de 22 de marzo, del Sistema Universitario y 128.1 de los vigentes Estatutos de la Universidad Autónoma de Madrid (aprobados mediante Decreto 214/2003, de 16 de octubre, del Consejo de Gobierno de la Comunidad de Madrid y modificados mediante Decreto 94/2009, de 5 de noviembre, del Consejo de Gobierno), y frente al mismo podrá interponerse:

- a) Con carácter potestativo y en el plazo de un mes contado a partir de su publicación en el BOUAM, recurso de reposición frente a este mismo órgano, de conformidad con el artículo 123 de la Ley 39/2015 de 1 de octubre, del Procedimiento Administrativo Común de las Administraciones Públicas (LPACAP).
- b) Alternativamente al apartado a), podrá ser impugnado directamente ante el orden jurisdiccional contencioso-administrativo, ante los Juzgados de lo Contencioso-administrativo de Madrid, en el plazo de dos meses, contado a partir de su publicación en el BOUAM, de acuerdo con lo establecido en los artículos 8, 14.1 y 46 de la Ley 29/1998, de 13 de julio, reguladora de la Jurisdicción Contencioso-Administrativa.

En Cantoblanco, a fecha de la firma. La Presidenta del Consejo de Gobierno. Amaya Mendikoetxea Pelayo

### ANEXO

### BOLETÍN OFICIAL DE LA UNIVERSIDAD AUTÓNOMA DE MADRID

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Erasmus+ Key Action II – Erasmus Mundus Joint Master TCCM, Project 101180348  
 << Theoretical Chemistry and Computational Modelling >>

CONSORTIUM AGREEMENT and FINANCIAL FRAMEWORK  
 Between the 8 Full Partner Universities (Higher Education Institutions)

The Universidad Autónoma de Madrid, public university of the kingdom of Spain established in Carretera de Colmenar Viejo, km. 15.5, Catoblanco, 28049-Madrid (Spain), represented by Professor Amaya Mendikoetxea Pelayo, Rector

Coordinating Institution of the Consortium, of the one part,

the Université de Toulouse, established in 118 route de Narbonne, 31062 Toulouse Cedex 9 (France), represented by Professor Odile Rauzy, President

and the Rijksuniversiteit Groningen established in Oude Boteringestraat 44, 9712 GL Groningen (The Netherlands) represented by Professor Jouke de Vries, President of the board of the University and the Katholieke Universiteit Leuven, established in Oude Markt 13, B-3000 Leuven (Belgium) represented by Professor Luc Sels, Rector

and the Universitat de Barcelona established in Gran Via de les Corts Catalanes 585, 08007-Barcelona (Spain), represented by Professor Raul Ramos Lobo, Raul Vice-Rector for Internationalization Policy

and the Università degli Studi di Perugia, established in Piazza Università 1, 06123 Perugia (Italy), represented by Professor Maurizio Oliviero, Rector

and the Università degli studi di Trieste, established in Piazzale Europa, 1, 34127 Trieste (Italy), represented by Professor Roberto Di Lenarda, Rector


and the Universitat de València, established in Avenida Blasco Ibañez, 13, 46010-Valencia (Spain), represented by Professor Carlos Cecilio Padilla Carmona, Vice Rector of Internationalisation and Multilingualism

recognized as partner institutions of the consortium (the “Partners” - PA)  
 of the other part

HAVE AGREED to the following terms and conditions, including those in the annexes which form an integral part of this Consortium Agreement.

### Article 1 - Objective of the present Consortium Agreement

On the basis of the present Consortium Agreement the Partners shall together contribute to the achievement of the requirements of the Grant Agreement (Annex 1), which corresponds to the

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implementation, management and quality assurance of the Erasmus Mundus Joint Master Theoretical Chemistry and Computational Modelling (EMJM-TCCM).

### Article 2 - Entry into force and duration

§1. The EMJM-TCCM comes into force on October 1st, 2024, and four editions will be offered by the Consortium. Each edition of the master has a duration of two years and will be offered in the following academic years: 2025-2027; 2026-2028; 2027-2029 and 2028-2030). The academic year 2024 - 2025 will be used as a preparatory year.

§2. The present Consortium Agreement shall enter into force after its signature by all parts but shall have a retroactive effect from October 1st, 2024. It shall be valid as long as the Grant Agreement (Annex 1) is active. It shall be renewable and modifiable by mutual agreement of the Partner and Associated Partners institutions, and following any new proposal selected by the EACEA. All changes and modifications shall be made in writing and shall be signed by the authorised representatives of each part.

§3. Should a PA wish to leave the agreement before the end of the Grant Agreement, this PA shall discuss it with the Consortium and shall follow the rules stipulated in the Grant Agreement (Annex 1). This is not the case if the PA should leave by force majeure.


### Article 3 - Scope and definitions

§1. The Universidad Autónoma de Madrid is the Coordinating Institution of a Consortium of eight PA and fifty-four Associated Partners (AP) that agreed to organize an Erasmus Mundus Joint Master (EMJM) named Theoretical Chemistry and Computational Modelling (TCCM), approved by the Education, Audiovisual & Culture Executive Agency (EACEA) of the Commission of the European Communities (CEC) under the Erasmus + framework programme.

§2. The TCCM Consortium is composed of eight European Partners: the Universidad Autónoma de Madrid -UAM- (Spain), the Universitat de Barcelona -UB- (Spain), the Rijksuniversiteit Groningen -RUG- (The Netherlands), the Katholieke Universiteit Leuven -KUL- (Belgium), the Université de Toulouse -UT- (France), the Università degli studi di Perugia -UPG- (Italy), Università degli Studi di Trieste -UTS- (Italy) and the Universitat de València -UV- (Spain).

And fifty-four Associated Partners: Universitat Autònoma de Barcelona (Spain), Universidad de Cantabria (Spain), Universitat Jaume I de Castellón (Spain), Universidad Complutense de Madrid (Spain), Universidad de Extremadura (Spain), Universitat de les Illes Balears (Spain), Universidad de Murcia (Spain), Universidad de Oviedo (Spain), Universidad de Salamanca (Spain), Universidad de Santiago de Compostela (Spain), Universidad de Sevilla (Spain), Universidad del País Vasco/ Euskal Herriko Unibertsitatea (Spain), Universidad de Valladolid (Spain), Universidad de Vigo (Spain), Universidad de Zaragoza (Spain), École Normale Supérieure de Lyon (France), Aix Marseille Université (France), Université de Montpellier (France), Université de Lorraine (France), Nantes Université (France), Université de Pau et des Pays de l'Adour (France), Université Rennes II (France), Sorbonne Université (France), University of Strasbourg (France), Università di Pisa (Italy), Università

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degli Studi di Torino (Italy), Università degli Studi Gabriele d'Annunzio di Chieti-Pescara (Italy), École Polytechnique Fédérale de Lausanne (Switzerland), Max Planck Institut für Kohlenforschung (Germany), Heinrich Heine Universität Düsseldorf (Germany), Vrije Universiteit Brussel (Belgium), Khalifa University of Science, Technology & Research (United Arab Emirates), Kyoto University (Japan), Pontificia Universidad Católica de Chile (Chile), Stanford University (United States), University of California Berkeley Department of Electrical Engineering and Computer Sciences (United States), University of New South Wales (Australia), University of Southern California (United States), Universidad de Investigación de Tecnología Experimental Yachay (Ecuador), Xiamen University (China), IMDEA Nanociencia (Spain), The Abdus Salam International Centre for Theoretical Physics (Italy), CINECA Consorzio Interuniversitario (Italy), Covestro Deutschland AG (Germany), FACCTs GmbH (Germany), IDENER Research & Development Agrupación de Interés Económico (Spain), Mass Spec Analytica, S.L. (Spain), Mestrelab Research S.L. (Spain), Molecular Horizon SRL (Italy), Nostrum Biodiscovery S.L. (Spain), Q-Chem, Inc. (United States), Qubit Pharmaceuticals (France), Repsol S.A. (Spain), and Simune Atomistics S.L. (Spain).

§3. The activities to be developed by the Consortium, and approved by the EACEA, are fully described in the Proposal of the Erasmus Mundus Master (pages 65-157 of the Grant Agreement Annex 1). Each Partner and Associated Partner has approved its relative contribution to the realization of the described activities in compliance with the Erasmus+ programme rules and policies. Any divergence from this proposal must be approved by all the Partners and Associated Partners and, if necessary, must be validated by the EACEA.

§4. All the responsibilities related to the management of the grant allocated to the Consortium by the European Commission are formalized through a contract between the EACEA and the Coordinating Institution: The Grant Agreement (Annex 1).


§5. The present Consortium Agreement describes the operating rules, other than specified in §4, among the partners: provisions for administrative and financial management and rules regarding the task distribution, internal communication and roles for each Partner and Associated Partners within the programme.

§6. The EMJM-TCCM will welcome graduate students in two categories as defined by EACEA: "scholarship holders" and "non-scholarship holders". According to their country of origin two categories of students are defined: programme (students from EU Member States and students from third countries associated to the Programme) and students from the rest of the countries. In order to assign students to one of the categories, the country where the student has been a resident or has carried out their main activity (studies, training, or work) for more than 12 months in total over the last five years will be taken into account.

#### Article 4 – Background

#### Article 4<sup>a</sup>) Erasmus +: Special conditions of EACEA Grant Agreement.

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§1. A European Union Grant is awarded, under the terms and conditions set out in the Special Conditions of the Grant Agreement, the General Conditions and the other Annexes to the Agreement, for the action entitled Theoretical Chemistry and Computational Modelling.

§2. The action shall run as of October 1st, 2024 (the "starting date") and shall end on November 30th, 2030.

§3. The grant shall be of a maximum amount of EUR 3 936 000€ distributed as follows:

- A. "Scholarships", 2 016 000 € to cover 60 Full Scholarships, each of them of 33 600 € (1 400 € per month and student for 24 months) covering subsistence, installation and travel + fee waiver.
- B. "Institutional contribution", a maximum of 1 800 000€ to cover:
  - o Consortium management costs.
  - o Organization of courses, including invitations of high-level scholars and guest lecturers to increase the course attractiveness.
  - o Cost of the registration fees of the 60 scholarship holders
  - o Cost of the insurance of all TCCM students.
  - o Costs for the participation of beneficiaries in events organized by the Agency (e.g. EMJM coordinators meeting, EMJM cluster meetings, etc.).
  - o Consortium contribution given to non-scholarship holders to partially support the costs of the compulsory mobilities.
  - o All other costs necessary to successfully implement the Master programme.
- C. "Contribution for special needs" of maximum EUR 120 000€ to cover support to students with special needs.

§5. The PA of the Consortium committed themselves to support the programme with a financial commitment for the period 2024/2030. The amounts, as specified in the corresponding letters of commitment presented with the proposal, are as follows:

- UT will fund 4 grants of 40 800 € each to cover subsistence, insurance and registration fees.
- UV will fund 4 grants of 39 340.80 € each to cover subsistence, insurance and registration fees.
- All PA commit to reduce registration fees of EM-scholarships holders (both European and non-European) to a maximum of 3 500 € per year, except if national legal requirements do not allow to apply a waiver in the registration fee.

#### Article 4b) Summary of EMJM-TCCM

§1. EMJM-TCCM is a joint master programme set as a collaboration between all consortium partners, this article summarizes different measures to recognize this joint nature of the TCCM. The final objective of the project is training a new generation of well-formed students able to follow, afterwards, a doctorate in this field. We aim to give them this training through a two-year programme that will include deep theoretical grounds, a good knowledge of simulation method and practical formation in new computational techniques. EMJM-TCCM aims to answer to two demands: the need for researchers able to work in priority areas as defined inside the Horizon Europa framework; and the need of the European industry and society for experts with a solid background in this complex area as

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a necessary step to make the EU chemistry sector more economically competitive, sustainable and environmentally friendly.


§2. The EMJM-TCCM is an integrated Master Programme designed by eight Universities with a wide-range leadership in Theoretical and Computational Chemistry: the Universidad Autónoma de Madrid -UAM- (Spain), the Universitat de Barcelona -UB- (Spain), the Rijksuniversiteit Groningen -RUG- (The Netherlands), the Katholieke Universiteit Leuven -KUL- (Belgium), the Université de Toulouse -UT- (France), the Università degli studi di Perugia -UPG- (Italy), Università degli Studi di Trieste -UTS- (Italy) and the Universitat de València -UV- (Spain).

§3. Contents: The duration of the programme is two years. The teaching language will be English. The contents of the first year corresponds to a general background in theoretical chemistry (Mathematics, Molecular Quantum Mechanics and Statistical Mechanics, Programming and Numerical Methods, Basic Spectroscopy and Basic Reaction Dynamics) that should provide the student with the necessary knowledge for the correct use of the tools required for the development of the Theoretical Chemistry, a sound knowledge of the fundamental postulates of Quantum Mechanics and its methodology, as well as of the fundamental aspects of Statistical Mechanics required to the study of molecular ensembles, condensed phase systems and reactivity questions. This will be complemented with electives courses, devoted to complement the training in different areas of chemistry, where the application of theoretical chemistry is useful or required. The contents of the second year corresponds to a mandatory course on "Advanced Methods in Electronic Structure, Dynamics and Molecular Modelling" and elective courses "Biochemistry and Drug Design: Machine Learning and Simulations", "Advanced Computational Techniques: Parallelization and Artificial Intelligence", "Computational Modelling in Astrochemistry", "From Theory to Implementation: Lectures and Tutorials in Theoretical Chemistry", "Quantum Computing", "Advanced Theoretical Methods of Attosecond Science", "Simulation of Materials", "Computational Chemistry Programming Project". This will be followed by a research work associated with the corresponding Master Thesis.

§4. Organisation: The details of the implementation of this study plan are given in Annex 2, which correspond to Annex C of the approved original proposal. The first year (M1) is divided into two tracks allowing students to change universities between semester 1 (S1) and semester 2 (S2). Track 1 is organized among the following PA: UAM, UT, KUL, UB and UV. Track 2 is organized among RUG, UTS and UPG. All PA will implement the following measurements to ensure the compatibility between their study plans:

- Have their local study plan adapted to this organization at the time needed in their universities to offer this plan in the course 2025-26 and to allow students to start in September 2025.
- To allow the exchange of students between semesters, all universities commit to ending the first semester, including exams, by the 15th of February and to not starting the second semester before that date.
- All universities will accept in the second semester, as exchange students, students coming from universities in the same track.

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The second year (M2) is common to all students, with a first semester (S3) dedicated to intensive courses: one compulsory and three electives to choose among the eight offered in the study plan; and a second semester (S4) completely dedicated to a Master Thesis. The Master will end with the defence of a Master Thesis that will be presented in the university of registration of the student.

§5. Registration of students and mobility: Students will register in the university where they will follow the first semester (S1) and will do the first year in the same track. They will keep the registration in this university during the two years of the master.

All students, scholarship holders and non-scholarship holders, must follow the Erasmus Mundus mobility rules: during the two years of the master, they must do at least two compulsory mobilities periods of one semester (30 ECTS) each, in two different countries different from the country of residence. First mobility must be done in one of the PA, the second mobility could be done in any PA or AP of the consortium. To meet this requirement, students will have the following options:


- During the first year's students will have the choice to do the first and second semester in the same university or to move in the second semester to a different country inside the same track to fulfil Erasmus Mundus mobility rules.
- During the first semester of the second year of the master (S3) they can do a mobility period in France if they choose the 30 ECTS among those offered in UT and live in France during the whole semester.
- During the second semester of the second year of the master (S4) they can do a mobility period related with their master thesis in any AP. It is recommended to do the research project corresponding to the Master Thesis as a collaboration between two AP of two different countries.

§6. Degree Awarding: the Rector of Universidad Autónoma de Madrid, as coordinating institution and in appliance by the Royal Decree-Law 822/2021 and 1002/2010, will issue an Erasmus Mundus Joint Master Degree (certificate in the case of Rijksuniversiteit Groningen) in Theoretical Chemistry and Computational Modelling on behalf of the other seven partners and with a Diploma Supplement, issued by the Coordinator, describing personal curriculum contents, detailing both the interdisciplinary and specialized curriculum. The fees for the issuance of the Degree will be established in accordance with the regulations of the Community of Madrid.

All PA commit to sending, in line with local procedures and at the end of each academic year, the official academic records of students registered in the TCCM master to Universidad Autónoma de Madrid in order that this University, as coordinating institution, can generate the corresponding Joint Title/Certificate and the Diploma Supplement with all the information of the academic activities done by the student and their corresponding marks. Communication channels to exchange this information, respecting confidentiality, will be established between the postgraduate services of Universidad Autónoma de Madrid and the corresponding services of the seven degree-awarding universities.

The TCCM EMJM is set up as combination of Joint and double master degree programme. TCCM students who, through their participation in the TCCM programme, meet the conditions of a master degree in the university where they are registered will receive said diploma degree issued by the

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corresponding institution. Spanish universities will only emit the joint title. The name of this degree will be as follow:

- "Master in Chemistry, Track Theoretical Chemistry and Computational Modelling" in Université de Toulouse
- "Master of Science in Theoretical Chemistry and Computational Modelling" in Katholieke Universiteit Leuven
- "Master in Chemistry, Track Theoretical Chemistry and Computational Modelling" in Rijksuniversiteit Groningen.
- "Diploma di Laurea Magistrale in Scienze Chimiche. Curriculum in Theoretical Chemistry and Computational Modelling" in Università degli Studi di Perugia
- "Diploma di Laurea Magistrale in Chimica" in Università degli studi di Trieste

§7. Application: The master's Course is open to European and non-European excellent students having acquired a bachelor in Chemistry, Physics or Material Science, or equivalent (or higher) level if authorised by the legislation of the corresponding European Country. Other scientific bachelors can be accepted, but possession of the following (or equivalent) subjects at the level of the Chemistry Euro bachelor needs to be certified: Chemical Bonding, Atomic and Molecular Structure and Intermolecular Interactions, General physics, Mathematics, General Physical Chemistry, Thermodynamics and Kinetics, Spectroscopy. Some deficiencies on one or two of these topics may be acceptable, but the student will be accepted on condition to follow levelling courses at the beginning of the Master.

## Article 5 - Responsibilities

### Article 5a) Coordinating Institution

§1. The Coordinating Institution, Universidad Autónoma de Madrid, has the financial responsibility of the programme.


§2. The TCCM Coordinator is the representative of the Coordinating Institution and has the responsibility of the general management. The coordinating institution commits to follow-up the effective implementation of planned activities, both at the pedagogical and administrative levels, as described in the Proposal of the Erasmus Mundus Master TCCM included in the Grant Agreement (Annex 1).

§3. The Coordinating Institution also serves as an interface between the EACEA and the consortium formed by PA and AP. It will provide the EACEA with all the required reports on the project evolution, deliverables, as well as the valorisation and dissemination of results, milestones, and its financial management, according to the Grant Agreement (Annex 1).

§4. The Coordinating Institution shall manage the following activities:


- General coordination and initiation of TCCM programme activities in collaboration with the PA.
- Monitor that the action is implemented properly.
- Act as the intermediary for all communications between the consortium and the granting authority.

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- Distribute the payments received from the granting authority to the other beneficiaries, as agreed among PA, without unjustified delay.
- Manage and distribute the budget corresponding to "Institutional contribution" and "Contribution for special needs" as agreed by the PA.
- Transferring to the PA the funds necessary for the payment of EM-scholarships and registration fees for the students assigned to them.
- Transferring to the PA the funds assigned to support the mobility of non-scholarship holders registered in their universities.
- Transferring to the PA the funds necessary to organize the courses assigned to them, including the cost of the scholars invited to participate in these courses.
- Payments of invoices resulting from TCCM programme general activities even if occurring at a Partner institution, when the Consortium has agreed on the expenses, the costs are eligible under the Coordinating Institution criteria, reasonable, and fitting with the current budgeting of the Consortium allocation.
- Elaboration of reports (academic, administrative and financial) to keep the TCCM Consortium informed of the different activities.
- Convening of the International Pedagogical Commission.
- Coordination of the decision-taking procedure.
- Setting up of tools to promote and simplify internal communication between the PA: common cloud directory to share main documents, forms and guidelines, mailing list to ensure fast communications with AP, PA and students, videoconference system to be used in the periodic meetings, on-line tools to share and manage tasks among all partners and a common on-line calendar of the TCCM reflecting the important dates for courses, meetings and master activities and the dates of milestones and deliverables.
- Ensure that all students are covered by health health, legal liability and accident insurance, including the coverage specified in Annex I.
- Set up a free of charge, open, transparent, impartial and equitable selection procedure of students, respecting local rules and regulations.
- Advertise the calls for scholarship and registration of the master in the web page of the master (www.emtccm.org), social networks and any means that can give worldwide visibility to the master, including distributing the information among a network of TCCM collaborators and alumni.
- Ensure that the web page of the master (www.emtccm.org) is updated and contains clear and precise information of the TCCM activities.
- Ensure that the master courses start in the academic year 2025-26 and that the study plan is fully implemented as described in Annex I and for at least four editions and ensure that the necessary measurements to evaluate the quality of the courses are implemented.
- Ensure that all enrolled students are adequately supervised, are assisted in the administrative procedures (including visa requirements) and that all of them sign the "Student Agreement" that specifies all the points indicated in Annex I.
- Set up the mechanisms to follow up the activities of all students registered in the master. Verify that all students follow the mobility rules of the Erasmus Mundus programme and report them periodically in the funding and tender EU Portal (Continuous Reporting tool).
- Complementary proposals and applications within the Erasmus+ programme.

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To manage the above activities the Coordinating Institution will hire a manager and will count with the help of all AP to distribute tasks and responsibilities as recorded in Annex 1 and article 5b below.

#### Article 5b) Partners (including the Coordinating Institution)

§1. The Partners shall perform and complete their share of the TCCM Programme activities in accordance with the requirements set out in the Grant Agreement (Annex 1). Each Partner shall carry out the work in such a way that no act or omission in relation thereto shall constitute, cause, or contribute to any breach or non-compliance by the Coordinating Institution or by any other Partner of any of their respective obligations under the Grant Agreement.


§2. The Partners shall provide in due time the TCCM Coordinator with the information necessary to prepare the reports required by the EACEA. The Partners shall be aware that the payment of the studentships and of the funds allocated to each Partner is subjected to the timely submission of the financial reports by the Partners to the Coordinating Institution, then by the Coordinating Institution to the EACEA. The payments of the EACEA will be done as indicated in the Grant Agreement (Annex 1) as follows: 50% of the grant maximum 30 days upon entry into force the Grant Agreement. 40% in month 48 (60 days from receiving additional prefinancing report), 10 % as final payment after month 74 (90 days from receiving the corresponding periodic report).

§3. When submitting invoices resulting from activities as in Article 5a §4 to the Coordinating Institution, the Partners shall meet the financial and administrative requirements of the latter.

§4. Each Partner shall organize and realize the TCCM programme activities in its own institution, and specifically:

- The realization and promotion of TCCM academic programme.
- The management of the funds distributed by the Coordinating Institution: The financial administration of each Partner shall guarantee the correct use of the funding for the correct destination in compliance with Annex 1.
- Regarding the students and scholars visiting its institution, prior and during their stays should provide help with:
  - Visa request: Each Partner shall help to obtain the documents required by its national immigration policy, by providing all the explanations and documents helpful for the applicants.
  - Supervision of students and scholars' status regarding national immigration policy during their stay.
  - Academic admission and registration.
  - Academic assistance: each student will be assigned with a local tutor during the period of stay in the institution.
  - Integration in the institution, giving students access and clear information of the facilities available from them in the institution, giving support to access accommodation, for instance university residences, and detecting if any student has, during his/her stay, any kind of problem that can be eligible for the budget associated with the "contribution for special needs".

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§5. For each Partner, an individual person acting as Partner Coordinator must be named and will have the responsibility to organize and coordinate with their collaborator(s) the activities and the organisation of TCCM programme in the Partner institution. They will be the link between Partner institution and the TCCM Coordinator.

§6. The Partners are further assigned specific tasks, as explained in Annex 1, that they shall manage and supervise in compliance with the Consortium decisions:

– Universidad Autónoma de Madrid (UAM): commits to follow-up the effective implementation of planned activities, both at the pedagogical and administrative levels. Thus, UAM ensures that the project's objectives and deliverables are achieved in accordance with the work plan and allocated resources, as well as the valorisation and dissemination of results. UAM coordinates the entire partnership until the end of the project, in particular by organising the work of the Working Packages leaders to ensure that all project objectives, including deliverables, are met. UAM also serves as an interface between the European agency EACEA and the consortium and is in charge of the expedition of the Joint Title, financial management of Consortium funds and general coordination tasks as indicated in article 5a §4


– Université de Toulouse (UT): will support UAM in the general coordination of TCCM activities and will oversee the organisation of the courses of the second year of the master done in the third semester.

– Universitat de Barcelona (UB): will have the responsibility of the organisation of the selection process, including promoting and publicising the calls for scholarships worldwide, implement targeted strategies to attract high-achieving students, as well as collecting applications, organize and coordinate the selection process.

– Universitat de València (UV): will manage the Mobility Plan. Will ensure that all students carry out their mobility between partner universities, respecting an educational logic and EM mobility rules. Will keep contacts with the individual students in order to verify the good conditions (pedagogical and material) of the mobility.

– Katholieke Universiteit Leuven (KUL): at consortium level, will be in charge of the verification of the quality of the entire action implementing the necessary tools to control and monitor the overall project's quality. Will ensure that the transfer of knowledge to the students is effective and the courses provided are delivered under optimal pedagogical conditions. Will guarantee the correct implementation of the project in terms of activities, results and deliverables, in accordance with the commitments made to the Erasmus+ program. Will ensure compliance with European Union (EU) regulations and standards during all the project implementation. This consortium-wide responsibility complements each partner's responsibilities for quality verification of each national programme.

– Università degli Studi di Perugia (UNIPG): will oversee integration of students, will implement good practices referred to students to ensure that conditions in which the master's programme is taking place are optimal. Will promote student well-being and success: creating and executing programmes aimed at improving the holistic well-being of the programme's students, establishing support structures and resources to address academic and personal obstacles, and continuously assessing student performance, intervening as necessary to ensure academic success. Will facilitate cultural and

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linguistic integration and enhance EU-value awareness. Will detect all students that present special need and provide them with the necessary support.

– Università degli studi di Trieste (UNITS): will be in charge of the dissemination and communication with the objective of increase awareness of the TCCM programme among potential students, academic institutions, and other relevant stakeholders. Will be in charge of looking for and updating contents in the web page and social networks. Will develop communication strategies to attract and inform potential applicants about the program's unique features, benefits, and opportunities. Will ensure timely and accurate dissemination of information regarding admission procedures, programme structure, scholarships, and any updates to interested parties. Will promote the program's commitment to diversity and inclusivity, encouraging applications from a wide range of backgrounds and cultures. Will implement mechanisms for evaluating the effectiveness of communication and dissemination efforts and use feedback to continually improve strategies.

– Rijksuniversiteit Groningen (RUG): will oversee the employability of students and will manage the TCCM Alumni Association, fostering a strong sense of community among TCCM alumni through networking events, social media, and other communication channels. Will provide a platform for alumni on the website to share career insights, job opportunities, and industry trends. Will establish mentorship programmes connecting experienced alumni with recent graduates to provide guidance and support in their early careers. Will facilitate ongoing communication with programme alumni, encouraging their involvement in promotional activities and utilising their success stories to attract new applicants. Will enhance employability by fostering professional connections and networking opportunities.

#### Article 6 - Decision taking

§1. For the management of the project the consortium will base itself on the following commissions:

- An International Pedagogical Commission (IPC).
- A Management Board (MB) that oversees the daily management of the Master.
- Local Pedagogical Teams (LPT) one for each Full Partner University.
- A TCCM Alumni Association (AA).

§2. The IPC is composed by two representatives of each PA, 6 representatives of the AP, 1 alumnus and two students (delegates of the first- and second-year students respectively). The MB comprises four members: the coordinator of the Master, one representative of UT and two members of the international administrative staff. The LPT will be organized in each PA and will be made up of the local TCCM coordinators, teachers and administrative staff, its composition being chosen locally.

§3. All important decisions will be taken jointly by the members of the IPC during the meetings (either on-site or by videoconference), on-line surveys or email consultation. The IPC shall adopt decisions regarding:

- The tasks described in Article 5a §4 and 5b §6.
- The management of the TCCM programme.
- The modifications of the programme.

§4. IPC members meet in person once per year when the selection of students for the next year takes place (tools to follow the meeting on-line will be provided for the members that cannot attend). They will also meet at least twice per year virtually: at the end of June, once the courses have finished

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reviewing the results, and in September during the M2 compulsory intensive courses. As a result of these meetings the IPC members will produce simple reports to list any necessary actions and changes. These are passed by the consortium decision-making process (see §4-§4), and then necessary actions are implemented by the MB.

§5. The IPC supervises and approves the decisions regarding:

- The selection process.
- The quality of the courses.
- The quality of the teaching through the analysis of the corresponding surveys.
- The quality and relevance of the mobility path for each student.
- The participation of AP in the project.
- The consistency of teachings (Track 1, Track 2 and second-year's intensive courses).

§6. To provide a regular monitoring and revision of the study programme and to create a supportive and effective learning environment for students, the following points will be evaluated by the IPC:

- Up-to-date content of the programme in the light of the latest research in Theoretical Chemistry and Computational Modelling.
- Changing needs of society.
- Students' workload, progression and completion.
- Effectiveness of procedures for assessment of students.
- Expectations, needs and satisfaction of students in relation to the program.
- Learning environment and support services and their fitness for purpose for the program.
- Plan retakes procedures.
- Appoint a mediator in case of a problem between a student and a teacher/supervisor.


§7 LPT is responsible for the quality and for the day-to-day correct running of the teaching of first year subjects in its university. It helps students to face any logistical aspect during their master period and is careful of any kind of discrimination against students or staff. Their members are free to meet whenever needed with a minimum of twice per year. The LPT recovers the satisfaction survey of the main actors: students, lecturers and scholars.

§8 AA acts as a key element to follow the student's career and helps the consortium by giving feedback to consider in the quality reviews and by providing useful practical information that will be recovered by the coordinating institution and considered when producing information packages for future master's students. TCCM will promote a close connection between AA and the Erasmus Mundus Association (EMA, [www.em-a.eu](http://www.em-a.eu)).

§9. Whenever possible decisions in the IPC will be taken by consensus. In the case that voting is needed, the following rules will apply.

- Each PA, each AP representative, each student and AA representatives have one vote each.
- Decisions shall be taken by a majority of three-quarters (3/4) of the votes, or lower in case of absence or of abstention of a PA/AP. Should the AP/PA fail to reach the majority, the PA/AP representing the Coordinating Institution shall have an extra vote to settle the discussion.
- A PA/AP may request to delay the vote by fifteen calendar days to consult with its institution or to produce documents that may affect the decision.

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- Since a decision engages the PA/AP, the voting PA/AP representative shall take every precaution to ensure their decision is in agreement with their collaborators, institution practices, and legal obligations.

- A PA/AP which can demonstrate that a decision goes against its administrative procedures or against the Grant Agreement can exercise a veto with respect to the corresponding decision or relevant part of the decision. Its demonstration must be supported by legal documents. In the case of exercise of this right to veto, the PA/AP shall make every effort to resolve the matter, which occasioned the veto to the general satisfaction of all.

- On request from a PA/AP, formal notice, consent or approval shall be given to confirm a decision taking. Such notices shall be signed by an authorised representative of each Partner and shall either be served personally or sent by mail with recorded delivery or telefax with receipt acknowledgement.

#### Article 7 - Funding distribution and use

§1. The EACEA, acting under powers delegated by the CEC, provides funding to the Consortium yearly. The funds, referenced in the Grant Agreement (Annex 1), are paid to the Coordinating Institution, and can be summarized as follows:

- "Scholarships": 2 016 000 € to cover 60 Full Scholarships.
- "Institutional contribution": a maximum of 1 800 000 €.
- "Contribution for special needs": a maximum of 120 000€.

§2. The tuition fees will be paid to each university following the public prices that apply in each PA, considering the limits indicated in Article 4a. §5

§3. Tuition fees of scholarships holders will be covered by the consortium.

§4. The cost of tuition fees of scholarship holders shall be transferred to all the Partners, by the Coordinating Institution, and should be administrated by each Partner in order to cover expenses resulting from registration, teaching, project and prevision of logistic associated with the TCCM programme activities. The quantities to be transferred to each PA will be agreed each year in the IPC meeting and will be adjusted to cover real expenses.

§5. Should an enrolled student fail to participate in part or the totality of the TCCM programme and another student does not replace him/her, the Coordinating Institution shall have to return part or the totality of the grant to the EACEA. If clearly required by the EACEA, the Partners shall renounce the funds due, and/or shall return the corresponding funds to the Coordinating Institution, including those corresponding to Registration if the enrolled student never came to the Partner institution.


§6. The Institutional contribution perceived by the Coordinating Institution shall cover for expenses resulting from the organization of courses, and the logistic of the TCCM programme as specified in article 4 §3

#### Article 8 - Admission and selection criteria

§1. The admission criteria for all applicants are as follows:

- Bachelor's in chemistry, Physics or Material Science, or equivalent level (or higher) if authorized by the legislation of the corresponding European Country. Other scientific bachelors can be accepted, provided the student takes complementary levelling courses, under the supervision of his local Tutor.

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• Candidates from countries where English is not one of the official languages, must demonstrate their knowledge of English by proving that they have received their education in English or with a certified language level equivalent to B2 using the CEFR (Common European Framework of Reference for Languages), or internationally recognized English proficiency certificate equivalent to a TOEFL score of minimum 90, or an IELTS score of 6.5.

• For students coming from third countries not associated to the Programme or having a Bachelor different from those mentioned above, the possession of the following (or equivalent) subjects at the level of the Chemistry Euro bachelor needs to be certified: Chemical Bonding, atomic and molecular structure and intermolecular interactions, General physics, Mathematics, General Physical Chemistry, Thermodynamics and kinetics, and Spectroscopy. Some deficiencies on one or two of these topics may be acceptable, but will be known by the local tutor, so that if the student is accepted, the necessary levelling activities are going to be taken mandatorily by the student at the beginning of the Master can be defined.

§2. The selection process for scholarship holders will involve evaluating each candidate according to six areas (a score between 0 and 3 will be assigned for each area), defined as follows:

• Area 1. The adequacy of the previous studies to the TCCM Master according to the following three categories:

- Chemistry, Physics, Material Science.
- Chemical Engineering, Pharmacy, Biotechnology, Informatics, Mathematics, Materials Engineering, Electronics Engineering, and other related bachelors.
- Other areas loosely related (e.g., Bachelor of Education, Food Technology).

These division may be corrected when the subjects listed in the academic record of the candidate contain more or less than the usual required subjects in the corresponding Euro bachelor.

• Area 2. The academic excellence, as shown in the academic record sent by the candidate.

• Area 3. The worldwide reputation of the institution in which previous studies have been done. This will be done by using the ranking of the best 12000 universities of the world provided by the web <http://www.webometrics.info/>

• Area 4. The continuity in studies and extra degrees. A degree of continuity in the academic achievements in accordance with the age of the student is expected (BSc at 22-24 years old, MSc at 24-26, PhD at 26-28). Negative aspects: Academic breaks (degrees taking too long); and deviations from a research-oriented career.


• Area 5. Extra activities: English level, other languages, programming skills, advanced knowledge of chemistry, publications and attendance with a presentation of research works in conferences.

• Area 6. Motivation letter, adequacy of professional project.

### Article 9 - Student issues

§1. Students' performance and evaluation:

- The evaluation of the students during M1 should be done locally by the teachers involved in leading the teaching of the course topics and disciplines integrated into the first year of the Master.
- The coordination of this training in each PA will be done following the scheme outlined in the Proposal (Annex 1).

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- The evaluation of the students during M2 will be common to all the students and will be done by the teachers and Invited scholars. Exams will be performed shortly after each course. The evaluation will be completed through a series of homework assignments for the students after the courses.

§2. Students' complaints:

- The Consortium has established clear procedures for dealing with possible students' complaints regarding his/her rights (Annex 1):

- The first level will be the responsibility of the Local Tutor of the Master at each PA and the local pedagogical team in the case of subject of the first year of the master.

- In the subjects corresponding to the second year of the master, possible complaints should be addressed to the coordinator of the course and, if necessary, to the International Pedagogical Commission.

- The complaints concerning the Master Thesis work should be solved by the local pedagogical team in the first instance and by the International Pedagogical Commission of the Master at a second level.

### Article 10 - Data protection and confidentiality

§1. The Partners agrees to comply, in the applicable terms, with the provisions of Regulation (EU) 2016/679, the General Data Protection Regulation (GDPR)

applicable since 25 May 2018 and other applicable legislation and regulations concerning the processing of Personal Information. Parties will determine in good faith how they will apply these laws and the data processing principles cooperating within PAs.

The Partners authorize the collection and processing of the personal data of the signatories and contact persons in order to manage the contractual relationship and promote communication between the parties, keeping the data for as long as this subsists agreement and, even later, until the eventual responsibilities derived from it are prescribed. The data subjects may exercise their right to access, rectify, erase, restrict or object to the data at the address of the registered office of each party and may file, in case of violation of rights, a claim before the corresponding control authority.

§2. The institutions will comply with all applicable local and national laws and regulations with respect to activity under this Agreement, including law related to anti-bribery, economic sanctions, export control, anti-boycott, privacy and data protection, higher education, and accreditation standards or procedures.

§3. Activities carried out under this Agreement will be done without the disclosure of either institution's confidential or proprietary information to the other institution or to third parties. Should it become necessary for the institutions to disclose to each other confidential or proprietary information, the providing institution will notify the receiving institution in advance and in writing, and the institutions will agree on reasonable terms for the protection of such information. All confidential information will be clearly marked as such, or promptly disclosed as such, in writing.

### Article 11 – Liability

§1. Each PA/AP shall be solely liable toward the other PA/AP and toward third parties for loss, destruction, damage or injury resulting from its own actions in the execution of this Consortium Agreement. Notwithstanding the foregoing, a PA/AP aggregate liability shall be limited to once the

PA/AP share of the total cost of the project, provided such damage was not caused by a wilful act or gross negligence.

§2. Each PA shall be solely liable toward the Coordinating Institution for any breach or non-compliance as described in Article 5b of the present Consortium Agreement. If the Coordinating Institution must pay any damages or penalties to the EACEA for such breach or non-compliance by a PA, the Coordinating Institution shall be entitled to full reimbursement from the said PA.

§3. Each PA shall be fully responsible for the performance of any part of its share of the Consortium Agreement and for the requirements of Insurance and Social Security for its personnel, involved herein.

### Article 12 - Applicable law and Competent Court

§1. This Consortium Agreement shall, in all respects, comply with the terms of the related Grant Agreement and Specific Agreements (Annex 1) and shall be governed by Spanish law. Any differences or conflicts arising from or in connection with this Consortium Agreement shall be resolved through mutual agreement among the Partners. If a resolution cannot be reached through these procedures, the Courts of Madrid shall have exclusive jurisdiction over the matter.

§2. The TCCM student is bound to the rules and regulations of the Institutes / institutions at which she/he is enrolled.

### Article 13 - Banking information

§1. The information about banking details is provided in the corresponding institutional page provided above.

### Article 14 - Annexes

The following annexes are part of the present Agreement:

Annex 1.- Grant Agreement (includes the approved proposal).


Annex 2.- Study plan (corresponds to Annex C of the approved proposal)

## Document Signed by the Legal Representatives of all the Partners of TCCM

The Universidad Autónoma de Madrid,  
*public university of the kingdom of Spain* established in Carretera de Colmenar Viejo, km.  
 15.5, Catoblanco, 28049-Madrid (Spain)  
Coordinating Institution

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.

Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):

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Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR AMAYA MENDIKOETXEA PELAYO  
RECTOR OF THE UNIVERSIDAD AUTONOMA DE MADRID  
IBAN:  
SWIFT CODE:  
Date of signature:  
Signature and stamp of institution:

**The Université de Toulouse,  
established in 118 route de Narbonne, 31062 Toulouse Cedex 9 (France)**


I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.  
Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):

Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR ODILE RAUZY  
PRESIDENT OF THE UNIVERSITE DE TOULOUSE  
IBAN:  
SWIFT CODE:  
Date of signature:  
Signature and stamp of institution:

**The Rijksuniversiteit Groningen,  
established in Oude Boteringestraat 44, 9712 GL Groningen (The Netherlands)**

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.  
Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):  
Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR DR. JOUKE DE VRIES  
PRESIDENT OF THE BOARD OF THE UNIVERSITY  
IBAN:  
SWIFT CODE:  
Date of signature:  
Signature and stamp of institution:

**The Katholieke Universiteit Leuven,**

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**established in Oude Markt 13, B-3000 Leuven (Belgium)**


I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.  
Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):  
Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR LUC SELS  
RECTOR OF KATHOLIEKE UNIVERSITEIT LEUVEN  
IBAN:  
SWIFT CODE:  
Date of signature:  
Signature and stamp of institution:

**The Universitat de Barcelona,  
established in Gran Via de les Corts Catalanes 585, 08007-Barcelona (Spain)**

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.  
Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):  
Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR RAUL RAMOS LOBO  
VICE-RECTOR OF INTERNATIONAL AFFAIRS OF THE UNIVERSITY OF BARCELONA  
IBAN:  
SWIFT CODE:  
Date of signature:  
Signature and stamp of institution:

**The Università degli Studi di Perugia,  
established in Piazza Università 1, 06123 Perugia (Italy)**

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.  
Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):  
Name and position of the legal representative (in CAPITAL LETTERS):  
PROFESSOR MAURIZIO OLIVIERO  
RECTOR OF THE UNIVERSITA DEGLI STUDI DI PERUGIA  
IBAN:

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SWIFT CODE:

Date of signature:

Signature and stamp of institution:

**The Università degli studi di Trieste,  
established in Piazzale Europa, 1, 34127 Trieste (Italy)**

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.

Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):

Name and position of the legal representative (in CAPITAL LETTERS):

PROFESSOR PAOLO TECILLA

DIRECTOR OF THE CHEMICAL AND PHARMACEUTICAL SCIENCES DEPARTMENT OF THE  
UNIVERSITA DEGLI STUDI DI TRIESTE

IBAN:

SWIFT CODE:

Date of signature:

Signature and stamp of institution:

**The Universitat de València,  
established in Avenida Blasco Ibañez, 13, 46010-Valencia (Spain)**

I, the undersigned, hereby declare that I fully understand and endorse the rights and obligations conferred by the present Agreement to the Institution I represent.

Signature of the beneficiary's legal representative (if the signatory is not the legal representative, please add an authorization to sign on his/her behalf):

Name and position of the legal representative (in CAPITAL LETTERS):

PROFESSOR CARLOS CECILIO PADILLA CARMONA

VICE-RECTOR OF INTERNALISATION AND MULTILINGUISM OF THE UNIVERSITAT DE  
VALENCIA


IBAN:

SIWFT CODE:

Date of signature:

Signature and stamp of institution:

**BOLETÍN OFICIAL DE LA UNIVERSIDAD AUTÓNOMA DE MADRID**

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