

Proposal Evaluation Form



EUROPEAN COMMISSION

European Education and Culture Executive Agency

Evaluation Summary Report

Call: ERASMUS-EDU-2021-EMJM-DESIGN
Type of action: ERASMUS-LS
Proposal number: 101050842
Proposal acronym: SpaceMed
Duration (months): 15
Proposal title: Erasmus Mundus Master - Physiology and Medicine of Human in Space and Extreme Environments
Activity: ERASMUS-EDU-2021-EMJM-DESIGN

N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	UNIVERSITE DE CAEN NORMANDIE	FR	0	-	55,000	100.00%
Total:			0		55,000	

Abstract:

The aim of the EMDM Physiology and Medicine of Space and Extreme Environments (SpaceMed) is to design a completely new and fully integrated Master (including a single joint degree, exploiting the opportunities offered by the European Approach for Quality Assurance of Joint Programmes) in Physiology and Medicine in Space and Extreme Environments which is offered as a full-time two-year 120 ECTS programme. This project involves three European High Education Institutions with leading human space physiology scientists that will join forces, pool resources, and develop common mechanisms related to quality assurance, accreditation and recognition of degrees and credits: Université de Caen Normandie, France (UCN-FR); Humboldt-Universität zu Berlin, Germany (HUB-GE); Jožef Stefan International Postgraduate School at Institut Jožef Stefan, Ljubljana, Slovenia (JSLI-SLI). This project also involves associated partners (space agencies, research organizations, firms), each of them having specific fields of expertise.

The objectives of this Master's degree are to provide graduates with a high level of knowledge and competence in physiology and space medicine. Specifically, the objectives of this Master's degree will be: (a) to train future researchers; (b) to train doctors and scientists who will be involved in medical aptitude to space flight; (c) to educate top skilled engineers who will be able to design, optimize, operate, and validate aerospace life support devices; (d) to provide students with an international network as well as a genuine European learning and an integrated multicultural and language experience.

Evaluation Summary Report

Evaluation Result

Total score: 93.00 (Threshold: 60)

Criterion 1 - RELEVANCE

Score: **38.00** (Threshold: 0/40.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The main aim of the project is to develop a new and integrated master's programme in physiology and medicine in space and extreme environments. The objectives are relevant to the EMDM programme. The proposal provides a very thorough and deep analysis of the Physiology and Medicine of Human in Space and Extreme Environments topic in the context of recent international break-through for travel in space. It also considers relevance of the knowledge transfer related to these activities from the government into the private sector, which is important and well addressed.

The proposal provides an adequate explanation of the disciplines and expertise needed and the planned strategy to ensure a joint and integrated approach – the key point it makes is the fact that no single institution is able to provide the breath of expertise to address all the elements of the curriculum. The three partners will ensure an integrated approach through close collaboration and close relationship with space agencies, research organisations and private companies. The proposed strategy for design of the joint Master program is well explained. It foresees all the necessary and relevant elements, namely joint program creation, joint program delivery, joint student application, selection and admission procedures, joint examination protocols, jointly organised internships, and awarding a single joint Master degree.

The project explains its ambition in the context of existing initiatives and programmes, which are not as comprehensive and multidisciplinary as the proposed curriculum. In particular, the European Space Agency Academy's online human space physiology training course is described, and main differences to the proposed content are outlined. The project ambition to go beyond the current-state-of-the-art is adequately explained and the partners plan to develop a programme which will be internationally relevant.

The proposal is built on previously established scientific cooperation of the project partners and the partnership declares openness for inclusion of other associated partners, which will provide added value to the Master program. Clear information is presented on the contribution of the Slovenian institution - a country currently underrepresented in the Programme. Thematically, the proposal offers a novel and not currently represented topic of space physiology and medicine, which has the potential to expand the catalogue offer of the EMJM.

Criterion 2.1 QUALITY — PROJECT DESIGN AND IMPLEMENTATION

Score: **18.00** (Threshold: 0/20.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The proposed plan of activities is comprehensive and includes detailed information on the methodology approach to implementing the project.

Specifically, the initial focus will be on defining the learning outcomes including concepts, foundations and basic tools, then specific courses and complementarities and synergies with existing provision at partner institutions. The partners will also focus on maximising integration – developing not just a joint degree, but also accreditation procedure, services and support provision. The foreseen tasks are well allocated to the participants. They are coherent and achievable during the project life-time. The defined deliverables are sound and measurable, enabling simple monitoring of the project realization.

Operational resources are explained and duly listed, and the project management structure will include project secretariat, steering committee and a credible approach to monitoring and quality assurance. The proposed team has the necessary capacity to achieve the expected results and to deliver the planned project outcomes. In particular, the proposal offers dedicated resources for practical training in the partners' laboratories, but also in laboratories outside of the project consortium, with external collaborators.

There is a detailed explanation of the approach to quality assurance and accreditation, with the European Approach for Quality Assurance of Joint Programme serving as a basis to quality review and validation of the programme, and additionally, and an external evaluation will be commissioned. The proposal anticipates the necessary steps to achieve successful accreditation of the Master program in medicine for space and physiology in extreme conditions.

Criterion 2.2 QUALITY — PARTNERSHIP AND COOPERATION ARRANGEMENTS

Score: **19.00** (Threshold: 0/20.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The consortium includes full partner institutions from France, Slovenia and Germany. Profiles of each of the organisations are provided and explained in detail – in particular, added value and complementarity of expertise. The partners have impressive networks of contacts and collaborations with research organisations, space agencies and businesses working in space and extreme environment related industries. The allocation of tasks is done according to the specific expertise of the project team members. All management, administrative and academic positions are well anticipated and clear division of roles and responsibilities is included.

In addition to the full partners, the project will also engage with a number of named associated partners, most of them industry organisations working with space and extreme environments projects or laboratories for space travel and related research.

Complementarity of expertise and added value of full and associated partners is evident and well documented. The associated collaborators outside of the consortium have significant inputs in the delivery of the new Master program, especially with their laboratory facilities, enabling the prospective students practical training in extreme conditions (zero-gravity or similar).

Criterion 3 - IMPACT

Score: **18.00** (Threshold: 0/20.00 , Weight: -)

The detailed criteria are set out in the call conditions (see Call document).

The impact of the project is defined and described at participant level, institutional level (project partners and their collaborations) as well as at a European level given the pioneering character of the project and its contribution to the European Higher Education Area. The main target groups affected by the project outcomes are identified, and the general impact of the project on them is appropriately identified. The exception is the impact on the employability of the prospective Master's graduates, which is not convincingly addressed. Also, the proposal lacks the definition of the timeline for the defined impact.

Communication and dissemination approach is comprehensive and includes a variety of tools (newsletters, website, social networks, events) as well as specific thematic events and health and science public fairs. The partners will work on a definition of content to ensure that adequate messaging is provided for each of the target groups. The promotion and dissemination activities are evenly distributed among the project partners, contributing to the local specifics for promotion. The promotion and dissemination tasks are measurable, enabling monitoring of the overall promotion and dissemination process.

Sustainability approach is well explained and the project will use the EMDM programme as a springboard to develop further training, research and industry collaboration opportunities. Alternative funding sources are considered - the industrial stakeholders and potential financiers (e.g. space agencies and private space companies) are already considered for contribution in the financial sustainability of the Master program. The partners will also look to develop a network of associated partners (industry organisations, national and European spaces agencies) in order to secure financial support and contributions. Funding applications to the Horizon Europe and Erasmus + partnership programmes will be considered. The proposal also provides concrete plans for application in the Franco-German University for added complementarity of its the sustainability plans.

Scope of the proposal

Status: **Yes**

Comments (in case the proposal is out of scope)

Not provided



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