

TFK programme, funded projects 2025

Project title: Collaborating on Renewable Energy and Technological Equipment	
Coordinator Ab Yrkeshögskolan vid Åbo Akademi John Dahlbacka, john.dahlbacka@novia.fi	The “Collaborating on Renewable Energy and Technological Equipment - (CREATE)” project is a collaboration between Novia University of Applied Sciences (Novia UAS), Namibia University of Technology (NUST) and University of Namibia (UNAM). All partners are in the process of purchasing hydrogen equipment and developing its use in laboratories for use in research and education. A key objective is, as a result of activities further described below, to identify such equipment that could be used in online simulation exercises in all institutions. The involved teachers, research teams and students on long-term mobility will be specifically involved in such comparisons. Here, linking resources of the partners connected to the Namibia Green Hydrogen Research Institute and Intelligent Systems Institute of Novia UAS will be key. CREATE is a research-based project that aims at building capacity in the Hydrogen value chain through three (3) core topics: 1) Curriculum Development and Collaboration which involves comparison of existing curricula of each partner and comparison of educational needs mapping that has previously been conducted in Namibia and Finland. 2) Online teaching and learning and strengthening staff competences, which will revolve around simulation, data collection and analysis. Through this activity, students and staff collaborate virtually, improving their multicultural collaboration and communication skills and strengthening their technical and digital skills through the use of modern online simulation technology. 3) Development of Learning, Teaching, and Research Environments, this activity focuses on applied research and the importance of industry-university collaboration for education development. The project includes short- and long-term students' mobility as well as staff mobility. In Addition, the project activities will also include: - Cooperation with the industry (referred to in Namibia as Work Integrated Learning) and site visits - Comparison of curriculum mapping - Students group work through project based learning - Online learning and teaching to strengthen technical and pedagogical competences - Face-to-face and guest lecturing during mobility visits. A the end of this collaboration, the assumption is that: - Students and teachers have improved cross-cultural understanding and communication, equipped with the skills and awareness when faced with multicultural environment in their future working life.
Partners Namibia University of Science and Technology (NUST), University of Namibia (UNAM),	

	- Based on the mapping, simulation and curricula benchmarking, the partners have gained insights which will benefit students in the long-term. Hence, new graduates are equipped with relevant skills and competences needed by the emerging industry. - Each institution enhances their collaboration partnerships with the industry and improve their teaching methodologies, incorporating the use of new technology, practice-oriented and problem-based learning which will also benefit future students beyond the project.
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