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MEXICO AND ITS RESOURCES FOR THE PREPARATION OF THE NEXT SPACE GENERATION.

Abstract

Mexico currently ranks fourteenth in aerospace manufacturing and sixth as a world exporter of aerospace components. With these data, an extensive barrier is shown for our country to be able to develop space technology that may be relevant in Martian or lunar exploration, since this industry is one of the most complex in the world, it requires creativity, resources, and scientific innovation. and technology as well as great training. The creation of a program for students who can be involved in similar missions could be a great idea so that Mexicans have the opportunity to contribute to aerospace research as well as the development of the industry to provide knowledge, tools, and resources to the Martian and lunar missions, from his bachelor's degree to his doctorate. One of the activities to materialize this project is an extensive study of geological, opportunity, educational, scientific, and technological areas, as well as budget; Fortunately, there are university students who are looking hard for these kinds of projects to carry out missions, since they can take advantage of all the resources that the country has as perfect ecosystems to carry out long-term analogs, such as the Baja California desert and the Pico de Orizaba, in addition to characteristic and world-class universities, such as the UNAM (National Autonomous University of Mexico), the National Polytechnic Institute and the Tecnológico de Monterrey, which have links to space exploration and the STEAM field, in addition to having students in their classrooms enthusiastic about collaborating in projects of this nature, from planning to carrying out the analogous mission. This could be a fundamental step for Mexico to go from being just a manufacturing country in the aerospace sector to including pilots, academics, and students on space missions. In addition to the investigation of investment points, extensive collaboration networks are made with space agencies and the private sector around the world.