

To meet the diverse needs of Mission Specialists, Researchers, and Astronauts in their space habitat, a dynamic and adaptable environmental control system should be implemented. This system should allow individuals to customize their environment based on their activities and preferences. Settings for temperature, humidity, lighting, and other environmental factors should be adjustable to accommodate different sleep schedules, work tasks, workout routines, and relaxation periods. For example, during sleep times, individuals may prefer a cooler temperature and dimmer lighting for better rest, while during work hours, they may opt for brighter lighting and moderate temperatures to enhance focus and productivity. Similarly, during relaxation periods, a cozy and ambient environment might be preferred, while during unoccupied times, energy-saving settings could be automatically activated. Such a personalized and versatile environmental control system would not only enhance comfort and well-being but also support productivity and overall mission success in space habitats. So, this will be a plan of ours to try and make the experience for workers in space to have an experience that will be one of a kind as they explore the unknown, which will prove to be enriching and valuable to the people.