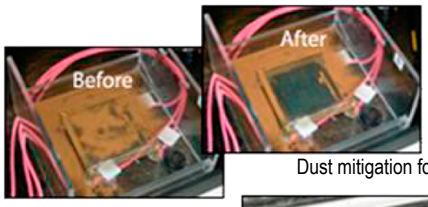
National Aeronautics and Space Administration

Life Sciences, Habitation Systems, and Human Research

NASA KSC is seeking partners in joint technology development projects and technology commercialization in the fields of basic space life sciences, human-based research, life support, and habitation systems.

Vegetable production unit



Dust mitigation for solar panels

ResQPod increases blood circulation to brain

partnerships

Objective: Conduct research and develop technologies in basic and human-based space life sciences and in sustainable life support and habitation systems for long-duration space missions, in support of NASA and commercial crew health and performance.

Technology Areas:

- Spaceflight human physiology
- Space radiation
- Protein colloidal aggregation
- Portable intravenous-fluid production
- Portable noninvasive cardiovascular monitoring
- Testing and development of advanced protective equipment
- Habitat productive environment
- Bioregenerative, sustainable, closed-loop life support systems
- Microbial biofilms and antimicrobial surfaces
- Dust mitigation and dust-tolerant systems

Technology Capabilities:

- Biomedical Research Laboratory
- Atomic-force microscopy
- Dynamic Light Scattering System
- Postflight Biomedical Data Collection Facility
- Medical Device Development and Testing
- Environmental Microbiology Laboratory
- Metrology Laboratory
- Polymer Science and Technology Laboratory
- Flight Experiment Development Laboratory
- Electrostatics and Surface Physics Laboratory
- Electromagnetic Effects Laboratory
- Applied Chemistry Laboratory
- Granular mechanics and regolith operations
- Aerospace medicine and biomedical engineering expertise

Please contact us if you are interested in collaborating with KSC on joint development projects.

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