Active Project (2014 - 2016)

High Performance EVA Gloves (HPEG) Project

Game Changing Development Program | Space Technology Mission Directorate (STMD)

ANTICIPATED BENEFITS

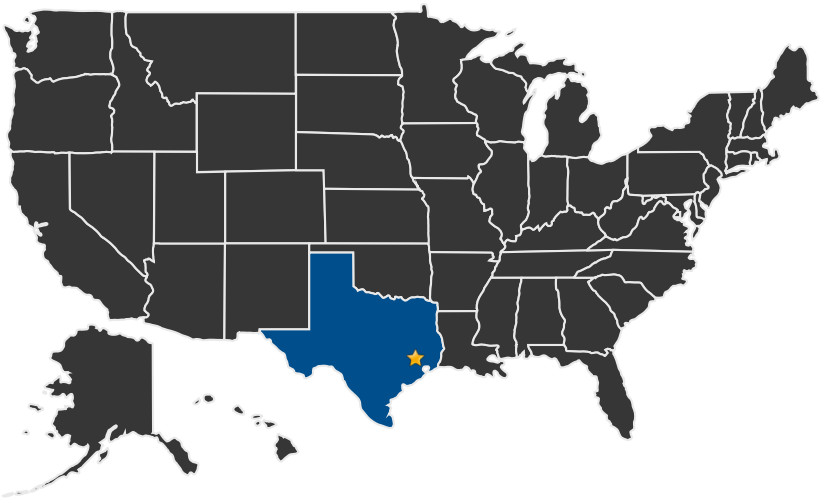
To NASA funded missions:

Ultimately the first "mission use" will be integration with advanced space suits under development by NASA's Advanced Exploration Systems Program. Although not an official "customer", the International Space Station could benefit from this technology if its operational life is extended. New gloves developed by HPEG could be evaluated and eventually used on the International Space Station.

DETAILED DESCRIPTION

In collaboration with HEOMD's Human Research Program, we are researching mechanisms for hand injury and will be developing new gloves to significantly reduce injury and improve performance, including mobility and glove life.

U.S. WORK LOCATIONS AND KEY PARTNERS



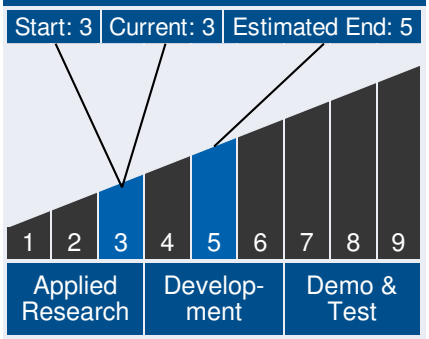
U.S. States With Work

Lead Center:
Johnson Space Center

Table of Contents

Anticipated Benefits 1
Detailed Description 1
U.S. Work Locations and Key Partners 1
Technology Maturity 1
Management Team 1
Technology Areas 2
Details for Technology 1 2

Technology Maturity



Management Team

Program Executive:
- Lanetra Tate

Program Manager:
- Mary Wusk

Project Manager:
- Daniel Barta

Other Organizations Performing Work:

- David Clark Co.
- Final Frontier Designs
- Human Exploration and Operations Mission Directorate
- ILC Dover

Technology Areas

Primary Technology Area:
Human Health, Life Support, and Habitation Systems (TA 6)
└ Extravehicular Activity Systems (TA 6.2)
  └ Pressure Garment (TA 6.2.1)
    └ High-Performance Extravehicular Activity (EVA) Gloves (TA 6.2.1.9)

Secondary Technology Area:
Human Health, Life Support, and Habitation Systems (TA 6)
└ Environmental Monitoring, Safety, and Emergency Response (TA 6.4)
  └ Protective Clothing and Breathing (TA 6.4.3)
    └ Advanced Clothing (TA 6.4.3.2)

DETAILS FOR TECHNOLOGY 1