



In partnership with the NASA Johnson Space Center

Are you developing EVA technologies or solutions?

Are you looking for EVA solutions or collaboration partners?

The Technology Collaboration Center, in partnership with the NASA Johnson Space Center, will hold a 3 day Exploration EVA (ExtraVehicular Activity) Workshop at the NASA Johnson Space Center. *The date for this workshop will be announced once the partial government shutdown has ended.*

Day 1: NASA will present their plans for future lunar and mars missions and their strategy for next generation spacesuits

Day 2: Presentations from NASA and other organizations on the latest technologies & unmet challenges related to exploration EVA and spacesuits, and potential application to other industries. Please visit the TCC's workshop website page for the list of identified technology challenges for next generation spacesuits. Presentation topic areas will include:

- NASA & space industry strategy & challenges for next generation spacesuits
- Spacesuit materials (fabric, joints, gloves, helmets, ...)
- Spacesuit technologies (electronics, air, water, waste, AR/VR, HUD, sensors, heat/cooling, ...)

Day 3: NASA will host a series of discussion sessions on specific areas of interest related to exploration EVA

If your organization is interested in exploration EVA or spacesuit technologies, please visit the TCC's website to [register for the workshop](#) or [request an opportunity to make a presentation on Day 2](#).

Tickets for the workshop are \$200 for all 3 days, \$100 for a single day, with TCC members eligible for a 50% discount. Also, for \$200 a TCC Individual membership and full workshop ticket can be purchased, which includes a member discount on TCC events for the next year.

Details on the workshop, including the agenda, presenters, and workshop location will be provided to registered attendees, prior to the workshop.

Please contact the TCC about submitting a Collaboration Request or for workshop sponsorship opportunities.

PRELIMINARY AGENDA

Day 1

- 7:30 Networking Breakfast
- 8:00 Welcome & Announcements
- 8:20 Guest Speaker
- 8:40 Exploration EVA Strategic Roadmap
- 9:05 xEMU Demonstration Status
- 10:00 Networking Break
- 10:30 National Policy Directives & EVA
- 10:55 Lunar & Mars Mission
- 11:25 Exploration EVA Challenges: Planetary Science
- 12:00 Lunch
- 1:00 Exploration EVA Challenges: Human Health & Performance
- 2:05 Exploration EVA Challenges: Hardware Development
- 2:30 Development of a Suit Standard
- 2:55 Networking Break
- 3:20 Collaborative Forum: Paving a Path to an EVA Suit "Standard"
- 5:05 Closing Remarks
- 5:15 Adjourn

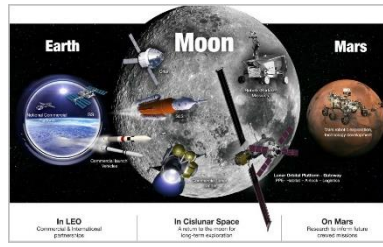
Day 2

- 7:30 Networking Breakfast *sponsored by Aerospace Corporation*
- 8:00 Welcome Remarks
- 8:15 Presentation Panel Session
- 10:00 Networking Break *sponsored by Oceaneering Space Systems*
- 10:15 Presentation Panel Session
- 12:00 Lunch
- 12:45 TCC Overview
- 1:00 Guest Speaker
- 1:15 Presentation Panel Session
- 3:00 NASA JSC EVA Facility Tours
- 5:30 Reception @ NASA JSC Neutral Buoyancy Lab

Day 3

- 7:30 Networking Breakfast
- 7:45 Welcome Remarks
- 7:55 Guest Speaker
- 8:25 Collaborative Forum: Bridging the Gaps
- 9:45 Networking Break
- 10:05 Collaborative Forum: Enabling Greater Technology Integration
- 11:30 Lunch
- 12:30 Collaborative Forum: Suit Sizing for Optimal Fit
- 2:00 Networking Break
- 2:15 Collaborative Forum: VR & AR, the New Analog?
- 3:45 Collaborative Forum: Science & Lunar Missions
- 5:00 Closing Remarks
- 5:15 Adjourn

About the Technology Collaboration Center



The Technology Collaboration Center, an independent 501c3 non-profit, is a partnership between the NASA Johnson Space Center, industry and universities, with the mission of solving difficult technology problems through innovative solutions connecting collaboration partners across technology sectors.

Workshops: A series of workshops assembling organizations from diverse fields to explore opportunities for solving difficult problems through new joint development partnerships, with a focus on strategic technology areas. Any organization can attend TCC workshops or request to make a presentation related to the workshop's topic area. The TCC also partners with other organizations on events related to potential collaborations for solving technology challenges.

- March 27 & 28: Automation, AI & Robotics, hosted by NASA Johnson Space Center, with support from UK Science & Innovation Network & Scottish Enterprise
- April 16, 2019: Connected Devices & Remote Sensing, hosted by Ecolab
- April 29 & 30: Wearable Technologies, hosted by NASA Johnson Space Center
Due to the partial government shutdown, these workshops will be rescheduled
- TBD: Data Analytics & Image Processing, hosted by Rice University
- TBD: Exploration EVA, hosted by NASA Johnson Space Center

Collaboration Concierge Service: Assistance is provided to organizations with unmet technology challenges, helping them find new innovations and establish collaboration partnerships, solving these difficult challenges and bringing the solutions to market. Working with TCC members and organizations in the outside community, the TCC finds collaboration partners and assists with the formation of the new partnership. Any organization can submit a Collaboration Request or Response. Collaboration Concierge Service fees are waived for Collaboration Requests submitted in conjunction with a TCC workshop.

Membership: The TCC offers several membership levels providing preferred access to the TCC's programs, starting with Individual Memberships for \$100 per year. While membership is not required to attend TCC workshops or use the Collaboration Concierge Service, members get early access to the TCC's programs plus discounted or waived program fees. Memberships require an annual cash and/or in-kind contribution to the TCC, a 501c3 public charity. Depending upon membership level, TCC members receive TCC Insiders News announcements and may have representatives participate on the TCC's Board of Directors and Advisory Council.