**Are you willing to help some AMAZING kids?**

Please return this form to Sharon Cates at [scates@sde.idaho.gov](mailto:scates@sde.idaho.gov) by July 7.

This summer, the Idaho Science and Aerospace Scholars (ISAS) program will have dozens of highly motivated high school students from across Idaho participating in week long virtual experiences in which they will collaborate on the design of a future human mission to the surface of Mars.

ISAS is seeking STEM industry professionals and experts to virtually support these students as Subject Matter Experts (SMEs) for questions that arise during the students' week of mission planning (Monday-Friday).

The summer experiences will be held on the following dates:

* July 12-July 18, 2020
* July 26-August 1, 2020

We are planning to have virtual office hours where students can contact Subject Matter Experts and expect a quick reply via email, phone call, or video chat. Please select the time below that you would be most available. If you would be available for more than one time slot, please select all that you are available.

What is your name, position, and affiliation?

Wednesday July 15/29 10-11 am MT

Wednesday July 15/29 11 am-12 pm MT

Thursday July 16/30 10-11 am MT

Thursday July 16/30 11 am-12 pm MT

Friday July 17/31 9-10 am MT

If you are willing to be available by email throughout the week, please mark here \_\_\_\_\_

What is the best email to contact you at:

If you are willing to accept phone calls, what is the best phone number to contact you?

Are you willing to do a video chat through our platform? (We would send you a link)

**(keep going there is one more page)**

The team missions are based on 4 areas, detailed mission goals are below. Please list/check/highlight/mark the items for which you would accept questions. They do not need to all fall within one teams goals.

**Mission Integration** - White Team

*Why do we go? Who will go? How much will it cost? How will the project be funded?*

* Overall Goals
* Administration
* Budget / Funding
* Crew Selection
* Space Law / Political Issues
* Communications (in transit and on Mars)

**Getting There and Back** - Red Team

*How do we go? Where are we going? How do we go safely?*

* Rationale and risk assessment
* Prototyping and testing of systems
* Interplanetary spacecraft design (propulsion, timelines, and communication systems)
* Landing sites
* Radiation hazards

**Living There** – Green Team

*How do we survive? What are the risks? What are our physical/ psychological needs?*

* Mars habitat design
* Plant growth facilities
* In-situ resource utilization on Mars (air, water, fuel)
* Climate hazards
* Mars (1/3) gravity issues
* Nutrition and exercise while on Mars
* Recreation and interpersonal relationships

**Working There** - Blue Team

*What is our mission? What do we need? How will we do it?*

* Exploration
* The search for life
* Laboratories and tools
* Space suit requirements
* Rovers and robots
* Work assignments

Please return this form to Sharon Cates at [scates@sde.idaho.gov](mailto:scates@sde.idaho.gov) by July 7. Thank you so much for your interest and willingness to share your expertise with Idaho students through the Idaho Science and Aerospace Scholars program.