



### THE CHALLENGE

A changing climate is the current reality when it comes to agriculture. Shifts in temperature and precipitation are already putting stress on farmers around the world—especially those who raise crops in extreme or marginal environments. Adaptations are needed that will strengthen humanity’s food supply without claiming more territory or increasing the use of harmful chemical fertilizers.



### OUR APPROACH

Adventure Scientists is recruiting, training, and managing volunteers with the skills to explore remote regions to collect samples of plants that thrive in extreme temperature, drought, flooding, and salinity. Our scientific partners analyze these samples to identify the symbiotic relationships with fungi and microorganisms that allow the plants to thrive where they could not do so alone.



### THE IMPACT

Existing technologies applying specific symbiotic fungi to crops have doubled the yield in drought-stricken areas around the world. The large, diverse sample collection we produce will reveal further subtleties of symbiotic relationships around the world, enabling the development of customized treatments for any extreme condition crops may face, now or in the future.