

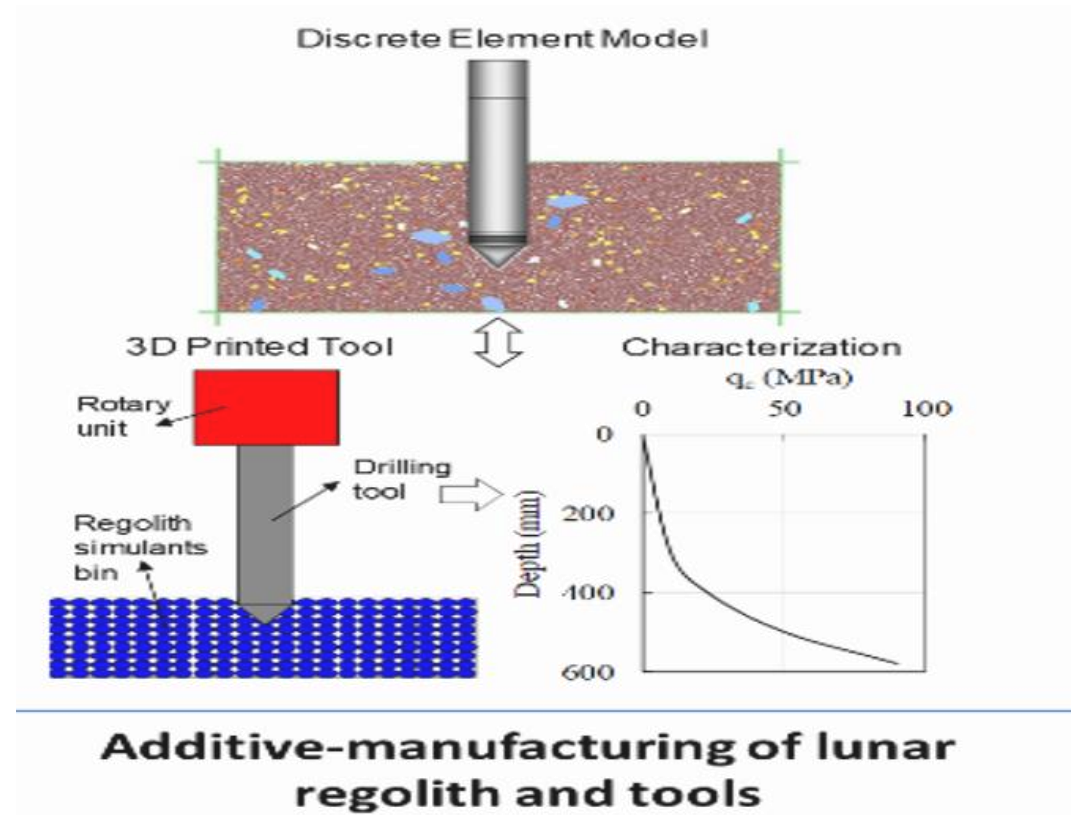
Devices and tools enabled by Advanced Manufacturing (AM) for Space Technology and Applied Research

Project 3 - In-Situ Resource Utilization-
Mars (ISRU)



In-Situ Resource Utilization-Mars (ISRU)

- UDC team led by Dr. Wang and external collaborator at Clemson University, have been working on the task 1 in which they are working on how to formulate a bio-inspired energy-efficient drilling method and develop a discrete element model for evaluating the mechanism for interaction of drilling tool and the lunar regolith (granular materials). The technical lead has engaged three UDC students to work on this project.



In-Situ Resource Utilization-Mars (ISRU)

- With the aim to understand the fundamental behavior of drill-regolith interaction and energy-efficient geotechnical tool for in situ measurement of engineering properties of lunar regolith through extraterrestrial subsurface regolith characterization using AM fabricated Lunar/Mars regolith processing tools.

