

# Constructing A Life On Mars

The Constructing a Life on Mars (CaLoM) project draws together the increasing international interest in travelling to and establishing a settlement on Mars in order to give students the opportunity to find out about developments in career opportunities that are taking place across sectors such as advanced manufacturing, engineering, construction, design, space and architecture due to the introduction of off-site manufacturing, 3D printing systems, augmented and virtual reality, robotics, Artificial intelligence, smart sensors and digital technology.

## CaLoM provides a context within which students can:

Explore and understand the impact and applications of digital technology across these sectors

Meet and collaborate with professionals, apprentices and HE students from these sectors to gain an up-to-date perspective on what careers opportunities are available and how these are changing

Find out about Higher Education and higher and degree level apprenticeship progression opportunities across these sectors

## The CaLoM project will involve four stages:

- 1. Planning Meeting** – 4wardfutures will meet with staff from your schools to introduce them to the project and agree the logistics for workshops and team selection. This could be an online video conference call with Mark Waters from 4wardfutures
- 2. Introductory Workshop** – 4wardfutures will run a workshop with up to twenty students in your school in January or February to introduce them to the CaLoM challenge; the background to humans travelling to and living on Mars; establish teams and help them to plan the initial research that will need to be carried out before the main CaLoM Challenge Event
- 3. CaLoM Challenge Event – 9th March 2020 - 9.45 to 2.30 at Manchester University in the Barnes Wallis Room** - Students will work in their teams and collaborate with professionals from a range of sectors such as engineering, space, design and science to address the challenges that people planning to live and work on Mars will face
- 4. HE and Employer Links** - The CaLoM project will support the development of links between the schools with employers, professionals and universities which could result in further collaboration in the form of visits, talks workshops and support with curriculum development. and workshops.

## Booking Instructions

Please contact your GM Higher Hub manager to book a place on the project

There are places for four schools on the CaLoM project.

Each school will need to identify 20 students in collaboration with their GM Higher Hub Manager

This group will then be split into 4 teams of 5 students

There will need to be a 3 hour in-school workshop before your students attend the event on 9th March

<https://gmhigher.ac.uk/events/calom/>