

**Creative Robotics Ltd**  
**NSTP-2 space technology proposal for a grant for exploratory ideas.**

**25/08/2014**

**Project Summary**  
**Building massive structures in orbit.**

When engineers and science fiction writers imagine creating large habitats in space they often conceive of their construction in a manner analogous to terrestrial buildings, where crews of space suited builders and sophisticated robots construct large structures from precisely engineered components ferried to orbit from the ground.

We imagine a different approach, one part inspired by nature's own builders, and part by the recent explosion of additive manufacturing technology. Our exploratory idea will investigate how mechanically simple and reliable machines can automatically form very large habitable structures in space, paving the way for large scale human occupation.