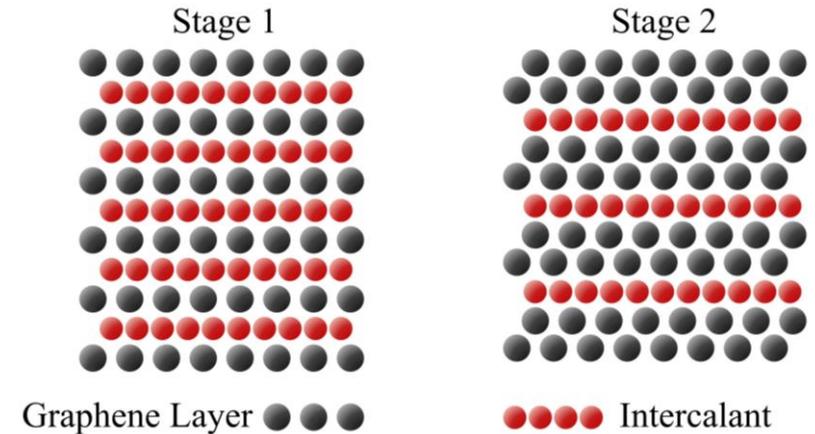


CABLE Conductor Manufacturing Prize



Team Name:	<i>UT-Austin</i>
Primary Submitter Name:	Mehran Tehrani
City and State:	Austin / Texas
Member Names (including partners and affiliates):	Mehran Tehrani
Submission Title:	Intercalation compounds of carbon fibers (ICF) as lightweight electrical conductors



Description of Material

- Carbon fiber compounds consisting of alternating graphitic and intercalant layers

Fabrication Approach

- Chemical vapor transport process

Potential Impact

- Specific electrical conductivity surpassing that of copper
- Resistance to harsh chemical and physical environments
- Ultra-strong electrical conductors