Optical System Design with Freeforms

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**Freeform Optics**

**Definition:** a mirror or a lens with a non-rotationally symmetric surface, typically with large departures from a best-fit spherical surface (many um to mm).

**Enables:**
1. Wider FOV
2. Better Image Quality
3. Smaller
4. Reduce number of components
NASA’s Space Technology Research Grants (STRG) Program features a low TRL technology portfolio of groundbreaking research in advanced space technology, in 15 topic areas (TA).

**Funded Activities:**
NASA Space Technology Research Fellowships (NSTRF)
Early Career Faculty (ECF)
Early Stage Innovations (ESI)
Space Technology Research Institutes (STRI)
Jon Papa is a NASA Fellow addressing the Topic Area on Wide Field of View Reflective Imagers, using Freeform Optics.

4 year fellowship

Expected Completion: August 2020