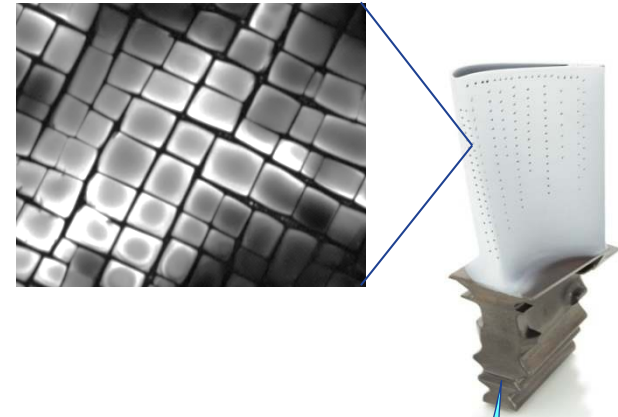


Turbine Blade Materials for Aircraft Engines

Develop next generation “superalloy”

Enable improved turbine efficiency and durability with higher temperature capability

- Design fatigue resistant alloy
 - Understand deformation mechanisms
 - Establish structure models and lifing tools
- Establish manufacturing processes
 - Optimize properties
 - Improve production yield
- Develop repair technology
 - Maximize component life



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