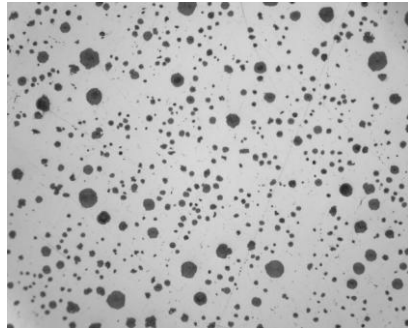


AME: Ductile Iron Alloy Development
Sponsor: Meritor

Meritor has a desire to develop a ductile iron alloy with mechanical properties of Grade 1 austempered ductile iron (ADI), but which does not require heat treatment. Meritor has an initial alloy chemistry that is



close in performance and can serve as the baseline for the team's development efforts. For Meritor, this project aims to decrease total cost, where the potential increased material cost is more than offset by elimination of the heat treatment process. For AME students, this project represents a valuable opportunity to apply knowledge and course work in material science to a practical industry problem.