

OMIC R&D TECHNOLOGY BOARD

[Project Title] Conceptual Abstract

*****Please remove this line and all italicized text before submitting*****

The purpose of the Conceptual Abstract is to provide a short description of a project idea. It is the basis for the OMIC R&D Technology Board vetting a project idea for feasibility and desirability. All Conceptual Abstracts are limited to less than 500 total words. Preferred length is one page.

Title: *Provide a short descriptive title for the proposed project*

Date: *List the date of submission of this abstract to the OMIC Technology Board*

Submitter: *List the name, contact information, and affiliation of the person submitting this abstract. Submitters may come from OMIC R&D industry or research member organizations.*

Industry Sponsor: *Each new project must have an OMIC R&D industry member sponsor who has agreed to support the project, draft the project RFP with support from OMIC staff and other interested Tech Board members, and select a winning proposal for the Tech Board to consider for funding. If approved, the industry sponsor will support the research team in developing a performance monitoring plan, and evaluate how well the project met its objectives and responded to industry needs. List the name, contact information, and affiliation of person who has agreed to serve as the industry sponsor.*

Additional Supporters: *List the name, contact information, and affiliation of persons other than the submitter and industry sponsor, that were either significantly involved in developing this abstract and/or strongly support pursuing this research.*

Project Type: *State if the project is a Joint General Project, a Grant-funded General Project, a Dues-Funded Specific Project, a Non-Dues-Funded Specific Project, or a Non-Member Specific Project.*

Fit with RoadMap: *Describe if and how the project fits within the current OMIC Technology Roadmap priority areas: rapid tool making & additive manufacturing to reduce times and waste; advanced alloy development to increase material performance and strength, reduce costs, and shorten production cycles; industry 4.0 networked computer-controlled systems and robotic automation to prevent human injury and improve quality; advanced welding and joining techniques for large complex structures, lowering CO2 emissions, and introducing more efficient net shape manufacturing; subtractive manufacturing process optimization and gear making using new techniques and computer numerical control (CNC) machines*

Project Description: *Provide a brief description of the project including OMIC resources required to implement the project or validate university results in a production environment.*

Project Outcomes: *Briefly describe the specific outcomes desired from the project.*

Project Duration: *Provide the timeframe over which the project outcomes are desired.*