



# CLEMSON UNIVERSITY FOUNDRY

Clemson  
University  
Foundry



A new research foundry, built by Clemson Engineering Technologies Laboratory (CETL) staff and students, is being used to support research projects, to provide educational opportunities to students in the Colleges of Engineering and Science and Architecture, Arts, and Humanities, and to service the needs of CETL's commercial and government clients.



The Clemson University Foundry (CUF), now in operation, is a [Z-Corp Gold level metal casting partner](#). Clemson is an affiliated school with the Foundry Educational Foundation (FEF), the cast metals industry's educational program at the college level.



**CLEMSON ENGINEERING TECHNOLOGIES LABORATORY**

**100 Technology Drive  
Anderson, SC 29625**

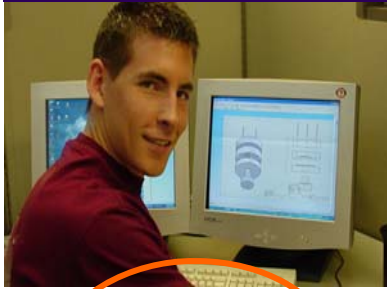
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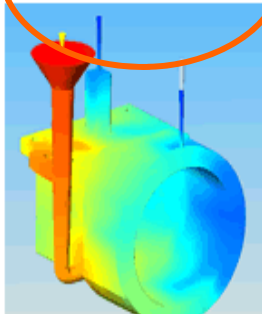
**<http://www.cetl.org>**

# Clemson University Foundry

The foundry is a key component in the CETL's Rapid Component Fabrication (RCF) effort. RCF is the integration of the latest technical advances in 3D computer aided design, rapid prototyping, and reverse engineering, coupled with casting, injection molding, or CNC machining to allow quick and inexpensive production of experimental, but fully functional, components.



**DESIGN & ANALYSIS**



**REVERSE ENGINEERING**



**3D MOLD & PATTERN PRINTING**

**FOUNDRY**

**MACHINE SHOP**



The foundry's current capabilities include a Speedy Melter (16 pounds of aluminum or 46 pounds of iron), resin bonded sand molding, and heat treatment. The CETL also has an 1800°C (3270°F) kiln for air-melting small quantities of high temperature alloys. CAD, 3D printing, reverse engineering (3D scanning), and a machine shop supplement the CETL foundry operations. Development of centrifugal casting & prototype die casting machines are in progress. Procurement of an induction power supply is well underway through a generous donation from the Caterpillar CAT Foundation.

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