

The only way our industry is going to survive is to attract young engineers who will come up with innovative manufacturing techniques to compete with overseas sources.

Paul Huffman, President
Dominion Metallurgical, Inc.

VT Fire will offer a great opportunity for students to do real projects, to find out what goes on in the real world of metal casting.

Ed Folz, Technical Director
Archer Creek Foundry

With VT Fire, Virginia Tech will be able to link fundamental research with an ability to fabricate actual prototype parts that industry can test, evaluate, and possibly adopt. This is a win-win for both academia and industry.

David Clark, Department Head
Materials Science and Engineering
Virginia Tech

It would be a big asset to the design teams to have a casting facility at their disposal. With casting we could work with a lighter material and get the exact dimensions and shape that we need.

Matt Brantz, MSE Senior
Member, VT Formula Race Car Team

It is important for our next generation to learn not only how to make metal castings but how they are manufactured. Even if an engineer is not part of our industry, the advantages and limitations of metal castings are an important part of an engineering education.

David Sherman, Brass Foundry Manager
Conbraco Industries

VT Fire will offer a richer experience in the lab. It's always good when you get people together from different backgrounds. Unexpected things happen.

Bill Reynolds, Professor
Materials Science and Engineering
Virginia Tech

**To learn more about how you can
become a part of this exciting endeavor,
contact**

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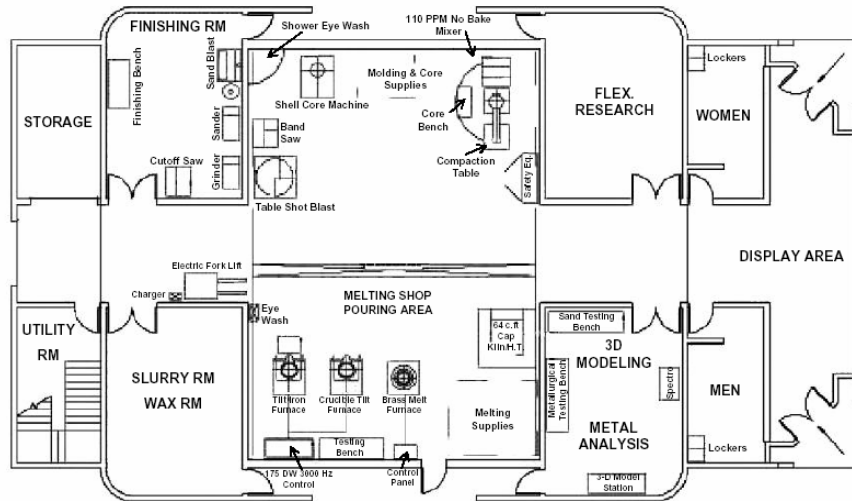
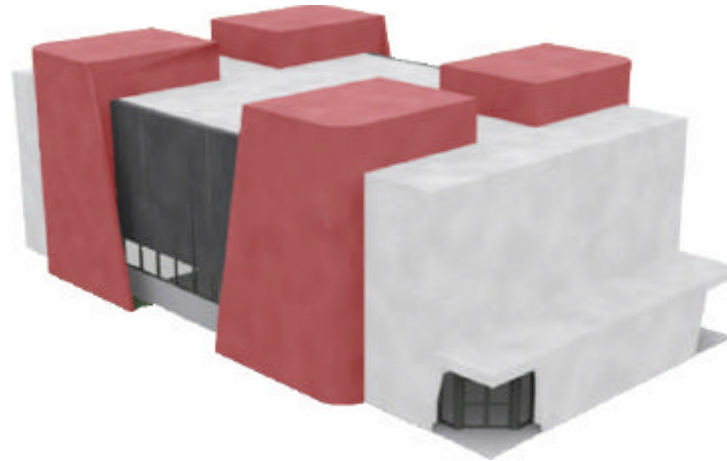
**Foundry Institute
for
Research
and
Education**



Research

VT Fire as a Research Facility

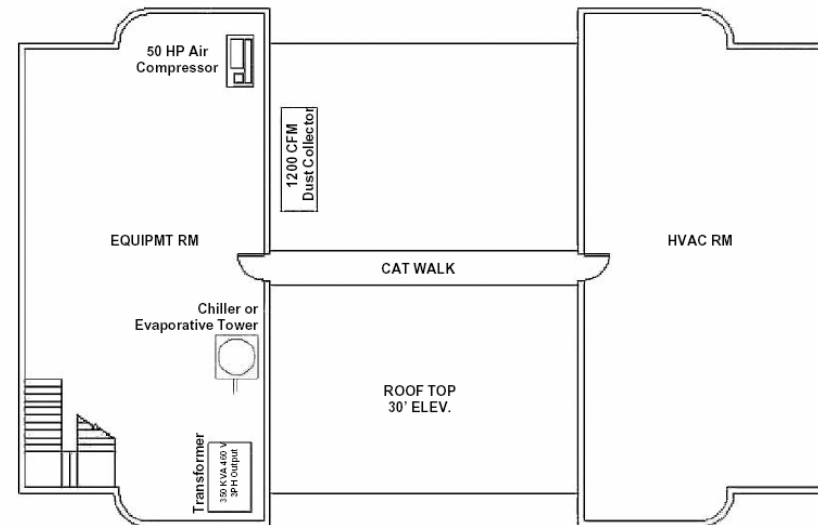
- New process technologies
- Transfer of technology from research to production
- Technical responses to environmental regulations
- Design tools for castable components
- Development methodologies for converting non-cast components to casting processes
- Respond to industry and federal research initiatives in foundry-related areas
- Create new metallurgical process technologies and new design paradigms



Teaching

VT Fire as a Teaching Facility

- Design courses for Architecture students, Building and Construction Students, including graduate level study program
- Casting and process courses for Engineering students
- Provide young engineers with the hands-on knowledge of the capabilities and limitations of metal castings
- Industry short courses and distance learning (AFS)
- AFS training courses: distance courses broadcast from CMI with hands-on component in the facility
- Facility would serve as a tool for recruiting students to the Materials Science and Engineering department and to the metal castings industry
- Studio facility for Art students



Drawings & rendering by Alan Hamblin