

The Ferrous Metallurgy Education Today [FeMET] Design Grant Program
(A program of the FeMET Initiative)

DESIGN GRANT PROPOSAL INSTRUCTIONS: 2014 ACADEMIC YEAR

The American Iron and Steel Institute and the Association for Iron and Steel Technology Foundation have joined together to create the Ferrous Metallurgy Education Today (FeMET) Initiative to increase the number of students studying metallurgy and materials science in North America, and to increase the number of such students electing to pursue careers in the iron and steel industry upon graduation. The Design Grant Program is one component of the FeMET Initiative.

Call for Proposals: The Design Grant Program challenges North American university teams (students and professors) to submit proposals for grant funding. The teams must self-declare a design challenge theme relevant to the North American steel industry. The proposal requires interaction with a local steel producer and the program allows participation by both **undergraduate and graduate** students. The proposal should indicate how each team will approach the subject, including budget and schedule requirements. The maximum allowable time for the project is one year beginning in the fall of 2014. Universities may submit more than one proposal; however each must be an entirely separate submission and will be evaluated independently. The number of awards granted depends on the funds availability; the maximum grant per award will be \$50,000.

Design Theme: Teams should work with a local steel plant to determine a topic. The team should quantify the benefits arising out of the proposed technique/s and the study. Teams may propose to perform one or more comparative studies as long as they remain within the budget parameters outlined in the proposal instructions.

Proposal Content: Please follow the instructions carefully for submitting proposals. The information is also available on the AIST home page at AISTFoundation.org. Proposals should be no more than 10 pages in length and contain the following sections:

1. Proposal Summary Page including budget and duration (refer to attached application).
2. Executive Summary, which clearly defines proposed design/solution and how it fits the topic.
3. Detailed description of the work and project deliverables such as potential models.
4. Description of the team that will work on the project. Please include the names of the professors and identify the number of students who will be on the team and their respective majors.
5. Project schedule including a list of anticipated project tasks and milestones.
6. Estimated distribution of total project cost.

Evaluation Criteria: It is the responsibility of the submitter to assure that sufficient information is contained in the proposal for reviewers to evaluate the proposal according to the following criteria:

1. Technical Approach/Relation to the Topic (35 points) – The proposal will be evaluated on the quality of the technical approach, its fit to the project topic, and the deliverables and overall quality of communication in the proposal. This will be based on the clarity, completeness and adequacy of the statement of work.
2. Probability of Success/Benefit Potential (35 Points) – The methodology used to approach the topic will be evaluated. This will also include its widespread applicability in the steel industry and the thoroughness of the evaluation made by the submitting team.
3. Qualifications (30 Points) – The expertise and capabilities of the team to bring the project to a meaningful on-time completion will be evaluated. Other factors considered under this criterion are project schedule including milestones, decision points and overall cost.

**YOUR COMPLETED PROPOSAL SHOULD BE SUBMITTED ELECTRONICALLY IN PDF FORM
TO [LORI WHARREY \(lwharrey@aist.org\)](mailto:lwharrey@aist.org) ON OR BEFORE 30 June 2014.**

AWARDEE/S WILL BE ANNOUNCED 31 JULY 2014 FOR THE 2014-2015 ACADEMIC YEAR.

Questions about the design grant program and/or proposal process should be directed to Lori Wharrey at +1.724.814.3044.

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DESIGN GRANT PROPOSAL APPLICATION: 2014 ACADEMIC YEAR

(use additional sheets as needed)

1. Name of Proposing University:
2. Descriptive Project Title:
3. Team Leader: Phone:
Address: E-mail:

Team Members

Name: Major:
Name: Major:
Name: Major:

4. Name of Steel Company and Contact:
5. Total Project Budget: Duration:
6. Provide a brief description of the project:
7. Describe anticipated benefits of the project:

Signature of Professor and Date
Enter your name (your e-mail will suffice as a signature)

It is the responsibility of the submitters to assure that sufficient information is contained in the proposal for reviewers to evaluate the proposal according to the evaluation criteria.

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