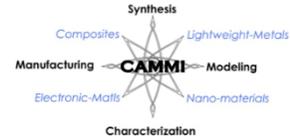




CAMMI COLLABORATIVE RESEARCH AND INDUSTRIAL ENGAGEMENT SOLICITATION

June 2015



The UNH Center for Advanced Materials and Manufacturing Innovations (CAMMI) invites proposals to engage in collaborative research and engagement that will support the mission of the Center*. Where possible and appropriate, resources in CAMMI (e.g., equipment) should be leveraged to support the collaborations. There are two tracks within this solicitation:

Track 1: CAMMI Industrial Research and Engagement (CIRE) seed funding (\$15-20k of CAMMI support each). CIRE seed funding will support UNH-Industry collaborations and is modeled after the NH Innovation Research Center (NHIRC) competition. It requires industrial matching funds of at least 1:1, but will not be restricted to NH companies. The goal of these projects will be to establish strong mutually beneficial connections for continued research and engagement with companies or involvement in consortia.

Track 2: CAMMI Interdisciplinary Research Collaboration (CIRC) seed funding (\$10-15k each). CIRC seed funding will support projects that are interdisciplinary in nature and involve at least 2 UNH faculty members who are not currently collaborating (or have barely collaborated in the past). While proposed research should be exploratory and innovative, an explicit strategy for using results to secure follow-on external funding must be outlined.

Key dates [†] :	<u>Proposals Due</u>	<u>Anticipated Funding Decision</u>
	August 1, 2015, 5 pm EST	September 1, 2015
	February 1, 2016, 5pm EST	March 1, 2016

Evaluation: The evaluation criteria for these awards will be how well the proposed collaborative project a) advances the mission and growth of CAMMI, b) enhances research productivity and advancement, c) develops new or strengthens existing collaborations or external relationships, and d) increases competitiveness for external funding. Furthermore, the feasibility of e) the budget and f) implementation will be assessed.

Recipients of these awards agree to:

- Provide a one-page report including (i) research and engagement outcomes, (ii) progress toward securing external funding, and (iii) any other key outcomes of funding at the end of the project.
- Allow their collaborations to be publicized in CAMMI promotional material and website.
- Acknowledge CAMMI funding on all papers published and presentations from project.
- Provide to CAMMI a quarter of the 10% PI indirect cost return received from the first funded award enabled by CAMMI collaborative seed funding (in addition to all of the indirect return from the company CIRE grant). This will help sustain Center operations and grow administrative and PI support.

Acknowledgement: CAMMI is very appreciative of the seed funding that was provided by the CEPS Dean's Office and the Senior Vice-Provost for Research (SVPR) Office. The goal is to transition this seed funding into a sustainable Center that will strengthen the research and engagement efforts of faculty members; increase the overall research enterprise of the university; and create a nationally and internationally recognized Center in the interdisciplinary areas of materials and manufacturing.

* see draft mission statement on the last page of this solicitation

[†] Anticipated: these dates annually in subsequent years

Track 1 CAMMI Industrial Research and Engagement (CIRE) seed funding
Proposal structure (not to exceed 5 pages)

Background and Objectives (approximately 1-2 pages)

- i. Provide a brief overview of the industrial problem, engagement, or technical area to be investigated.
- ii. What is the relation to the present state of knowledge in the field and to work in progress?
- iii. Describe objectives and specify the significance of the work, both in terms of industrial relevance, engagement, and advancement of fundamental knowledge.
- iv. Provide a duration of the project (typically up to 1 year)

2. Research Plan (approximately 2-3 pages)

- i. Describe the methodology and tasks to be completed.
- ii. Detail the roles and responsibilities of the industrial partner(s) and faculty member(s) and how the team will actively collaborate.
- iii. Describe the expected results (which of course are difficult to predict prior to conducting research), anticipated challenges, and back-up plans in case of roadblocks.

3. Impact (approximately 1 page)

- i. How will the proposed collaboration advance the mission and growth of CAMMI?
- ii. How will the research and engagement benefit the product, process, and organization of the industrial partner, as well as, if appropriate, advance fundamental knowledge?
- iii. How will the research and engagement benefit faculty's scholarly agenda and laboratory?
- iv. How will the proposed research and engagement lead to new opportunities that can be supported by industry, corporations, federal agencies, and/or foundations?
- v. The proposal should include specific information on opportunities where follow-on funding will be sought based on expected preliminary data.

4. Budget (not counted towards the 5 page limit and uses the CIRE budget form; approx. 1-2 pages)

This will use the standard budget template from UNH Sponsored Program Administration (SPA) to calculate the values for the form. Support from CAMMI will be entered into the Cost Sharing tab on the Excel spreadsheet and should focus on graduate student, postdoc, and research scientist support and materials/supplies/consumables. Company funds will be entered into the Sponsor tab and be used to support PI salary, travel, equipment, additional personnel support, etc. The total funds available for this solicitation and others in the fiscal year are \$60k. We anticipated funding 3-5 projects over the year. See the sample budget for how to enter costs for the project in the SPA Excel spreadsheet.

In-kind: In-kind expenses are direct costs incurred by the company in support of the project. In-kind expenses may include salaries, fringe benefits, materials, travel, equipment, and equipment usage during the project period. **While in-kind company expenses can be mentioned in the proposal to demonstrate interest from the company, these will not count towards credit for the at least 1:1 dollar match.**

Upon award approval, UNH will enter into a Cooperative Agreement with the company for the project. An agreement must be executed between the company and UNH within 30 days of the award.

Submission Process: The proposal must be submitted through SPA as a typical proposal including a yellow sheet and be a single PDF file that includes the proposal narrative and CIRE budget form. In the event that any elements of the proposal are missing or incomplete, the proposal may be rejected. Proposals (and budgetary questions) should be directed to: Karen Rooney at Karen.rooney@unh.edu (603-862-5412).

Track 2 CAMMI Interdisciplinary Research Collaboration seed funding
Proposal structure (not to exceed 5 pages)

1. **Background and Objectives** (approximately 1-2 pages)

- i. Provide a brief overview of the research area to be explored.
- ii. What is the relation to the present state of knowledge in the field and to work in progress?
- iii. State hypotheses (if applicable), describe objectives, and specify the significance of the work.
- iv. Provide a duration of the project (typically up to 1 year)

2. **Research Plan** (approximately 2-3 pages)

- i. Describe the methodology and tasks to be completed.
- ii. Detail the roles and responsibilities of each faculty member and how the team will actively collaborate.
- iii. Describe the expected research results (which of course are difficult to predict prior to conducting research), anticipated challenges, and back-up plans in case of roadblocks.

3. **Impact** (approximately 1 page)

- i. How will the proposed research collaboration advance the mission and growth of CAMMI?
- ii. Describe how the project is interdisciplinary (even if the faculty members involved are from the same academic department) and how the combined efforts of the collaboration will lead to results that could not be achieved by one faculty member in one discipline alone?
- iii. How will the proposed research lead to new research opportunities that can be supported by federal agencies, corporations, industry, and/or foundations?
- iv. The proposal should include specific information on opportunities where follow-on funding will be sought based on expected preliminary data.

4. **Budget** (not counted towards the 5 page limit and uses the CIRC budget form; approximately 1 page)

The total funds available for this solicitation and others in the fiscal year are \$60k. We anticipated funding 4-6 projects over the year. Include a Budget Justification in the column as specified.

Allowable expenses: Materials/supplies/consumables; Graduate student, undergraduate student, postdoc or research scientist support.

Unallowable expenses: Faculty salary (calendar, academic, summer), equipment, travel, etc.

Submission Process

The proposal must be a single PDF file that includes the proposal narrative and CIRC budget form. In the event that any elements of the proposal are missing or incomplete, the proposal may be rejected.

Proposals (and budgetary questions) should be directed to:

Brad Kinsey at brad.kinsey@unh.edu (603-862-1811).