

**Consortium for Innovation in  
Manufacturing and Materials (CIMM)  
Seed Funding  
Track 4: CIMM Core User Facilities Awards**

*Request for Proposals*

DEADLINE DATES:

Open Deadline until June 30, 2020



**LA EPSCoR**

**LOUISIANA ESTABLISHED PROGRAM TO STIMULATE COMPETITIVE  
RESEARCH (EPSCoR)**

**Supported by:**

**The National Science Foundation and the Louisiana Board of Regents**

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**Introduction:** The Consortium for Innovation in Manufacturing and Materials (CIMM) is an NSF EPSCoR RII Track-1 project focused on advanced manufacturing themes. Specifically, the current Science and Technology Thrusts (STTs) of CIMM address underlying technologies in two areas: 1) STT1 (Multiscale metal forming and replication) addresses challenges in high-throughput manufacturing of components with functional features ranging from microns to millimeters and beyond with high fidelity and repeatability; 2) STT2 (Laser-based 3D metal printing) focuses on adaptive manufacturing of application-specific structures with a high degree of geometric and microstructural complexity and variability. Beyond these research challenges, the CIMM program also includes the development of data handling and workflow management capabilities to support material and process development within the Integrated Computational Materials Engineering (ICME) framework. CIMM has established an ecosystem of User Facilities at LSU and Louisiana Tech including the Advanced Manufacturing and Machining Facility (AMMF), the Materials Manufacturing, Testing, and Evaluation Facility (MMTEF), the Shared Instrumentation Facility (SIF) and the Institute for Micromanufacturing (IfM), to support advanced manufacturing research and development and is expanding this network of user facilities where CIMM-affiliated users are given access at the same rates charged to the on-campus users. Collectively, these are called CIMM Core User Facilities (CIMM-CUF), <https://www.lsu.edu/eng/cimm/CUF/index.php>. This RFP is designed to facilitate science and engineering (S&E) research, education and training opportunities for faculty, post-doctoral researchers, and graduate and undergraduate students by providing access for qualified proposals to the CIMM-CUF.

### **Eligibility Guidelines**

Individuals who hold a regular tenured or tenure-track or research professors' position at any Louisiana public institution of higher education, or at any Louisiana higher education institution that is a member of the Louisiana Association of Independent Colleges and Universities, are eligible to apply. Awards are to be single investigator. While co-PIs are allowable, one and only one individual must be listed on the cover sheet as principal investigator. The PI should not currently be funded by CIMM. In addition, post-doctoral researchers and graduate and undergraduate students may participate but **must** be sponsored by a tenured or tenure-track faculty member or research professor, who will serve as the Principal Investigator (PI).

Principal investigators who are delinquent in submitting contractually required reports for prior or existing Board of Regents Support Fund and/or Federal awards managed by the Board of Regents Sponsored Programs Section are precluded from submitting a proposal in response to this RFP until the required report(s) has been received and accepted by the Board.

### **Award Information**

- Must specify which CUF facility/facilities will be utilized (award is restricted to usage of CIMM-CUF facilities).
- Must specify the number of hours of CIMM-CUF usage needed to complete the project.
- Must specify instruments to be used.
- Must complete testing prior to June 30.
- Industry collaboration is encouraged.

It is essential that the request be realistic, so that funds will be fully expended by June 30. For this reason, PI's should consult with the directors of the facilities to be used for the proposed work.

The CIMM-CUF Awards program will be administered through the BoR's Office of Sponsored Programs and will operate under the guidance of the State's EPSCoR Committee. The awards are anticipated to be up to \$2,000. Supplies are not an allowable expense under this program. Multiple proposals from the same PI are allowable. Funds will be made available by contract from

the BoR to the Principal Investigator's (PI) institution. Institutions are strongly encouraged to waive the F&A on these awards to maximize the impact of the grants.

### **Proposal Format**

Proposals must use 1-inch margins, 11-point font or larger (Arial or Helvetica) and single line spacing. The following outline is to be followed:

- Title page (Please use the one provided with this RFP)
- NSF demographic survey (please use the form provided with this RFP) Note: this information is voluntary.
- Proposed Research (1 page max)
  - Rationale: discussion of the technical background and engineering/scientific justification. This should include project objectives and justification for how the research will benefit from the usage of the CIMM-CUF.
  - Test Plan: What exactly will be done? How will the CIMM-CUF be used? Motivations, methods, likely outcomes?
- References (not included in the page count)
- Budget (Please use the form provided). A budget justification/explanation must also be included. Budget justification should clearly show instrument charges including the number of hours.
- Biosketch (2-page limit; use NSF format)

### **Proposal Submission**

The proposal must be submitted to the Board of Regents by the submitting institution's authorized representative. All online submissions must be uploaded as a **single PDF document** through the LOGAN system. Proposal submission is a two-step process. Following PI submission, the proposal is routed to your employing institution for review, approval, and final submission to the Board of Regents' EPSCoR office; the Board does not receive and will not accept the proposal directly from the PI.

### **Instructions for PIs:**

- Go to URL: <https://web.laregents.org/logan/index.pl>
- Login using your LOGAN credentials.
- If you are new user and do not have a LOGAN login, please click on "New user registration" to register.
- If you have logged into LOGAN before and have forgotten your credentials please click "Forgot your password? Reset your account and receive a new system assigned password" to receive a new system-assigned password.
- After logging in, click on "Go >>" next to "CIMM Seed Funding Track 4".
- Follow on-screen instructions to complete your proposal.
- Send completed proposal to the appropriate campus office by clicking "Send Proposal to OSP/OSR". A proposal reference number will be assigned after the proposal is successfully sent to the PI's Office of Sponsored Programs/Research.
- An email confirmation of submission to the campus will be sent to the PI with the proposal reference number.
- The OSP/OSR will review the proposal, and, if approved, submit the proposal to the Board of Regents.

### **Instructions for the OSP/OSR:**

- Go to URL: <https://web.laregents.org/logan/index.pl>
- Login using your Institutional credentials.
- Select "CIMM Seed Funding Track 4".

- Follow on-screen instructions to submit the proposal to the Board of Regents' EPSCoR office.
- An email will be sent to both the PI and OSP/OSR to confirm successful submission of the proposal to the EPSCoR office.

If both the PI and the OSP/OSR do not receive confirmation emails within 4 hours, the proposal was not received. Please contact the LA EPSCoR office by phone at 225-342-4253 or by email at [support@laregents.org](mailto:support@laregents.org).

Specific questions concerning this RFP and the requirements set forth herein should be directed to Ms. Jessica Patton, Federal Programs Administrator, by sending an email message to [jessica.patton@laregents.edu](mailto:jessica.patton@laregents.edu).



## 2020 CIMM Seed Grants Proposal

### Track 4: CIMM Core User Facilities Awards

#### 1. Applicant's Name, Position & Contact Information

_____		
(Last Name)	(First Name)	(MI)
( )	( )	
Phone	Fax	Email
_____		
(Institution)	(Department/Unit)	
_____		
(Mailing Address)		
_____		
(City)	(State)	(Zip Code)

**PI Status:** Tenure-track  Tenured  Research Faculty

**PI Rank:** Assistant Professor  Associate Professor  Full Professor

**Core User Facility:** Please check the CUF facility/facilities to be used

Advanced Manufacturing and Machining Facility (AMMF)

Materials Manufacturing, Testing, and Evaluation Facility (MMTEF)

Shared Instrumentation Facility (SIF)

Institute for Micromanufacturing at LA Tech (IfM)

**Anticipated number of hours and instrument(s):**

#### 2. Project Title:

**3. Acceptance of Program Requirements:** By submitting my proposal electronically, I agree that I have read and understand the program requirements detailed in this RFP under Award Conditions. If awarded, I agree to ensure timely compliance to all program requirements.

## 2020 CIMM Seed Grants

### For National Science Foundation Reporting Purposes Only

**Gender:**  Male  Female

**Ethnicity:** (Choose one response)  Hispanic or Latino  Not Hispanic or Latino

**Race:** (Select one or more)

Asian  American Indian or Alaska Native

Black or African American  Native Hawaiian or Other Pacific Islander

White  Prefer not to respond

**Disability Status:**

Hearing Impairment  Mobility/Orthopedic Impairment

Visual Impairment  Other  None

Prefer not to respond

### **Why this information is being requested:**

The National Science Foundation (NSF) is committed to providing equal opportunities for participation in its programs and promoting the full use of the Nation's research resources. To aid in meeting these objectives, NSF requests information on the gender, race, ethnicity and disability status of individuals participating in NSF-sponsored activities. Provision of this information is voluntary.

*The above information will be used for NSF reporting purposes only and will not be considered as a precondition of a CIMM Seed Funding award.*

SUMMARY PROPOSAL BUDGET						
ORGANIZATION		PROPOSAL NO.		DURATION (MONTHS)		
				Proposed	Granted	
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR		AWARD NO.				
A. SENIOR PERSONNEL: PI/PD, Co-PIs, Faculty and Other Senior Associates List each separately with name and title. (A.7. Show number in brackets)		NSF-Funded Person-months			Funds Requested By Proposer	Funds Granted by (If Different)
		CA	ACA	SUMR	\$	\$
1.						
2.						
3.						
4.						
5.						
6. ( ) OTHERS (LIST INDIVIDUALLY ON BUDGET EXPLANATION PAGE)						
7. ( ) TOTAL SENIOR PERSONNEL (1-6)						
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. ( ) POSTDOCTORAL ASSOCIATES						
2. ( ) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)						
3. ( ) GRADUATE STUDENTS						
4. ( ) UNDERGRADUATE STUDENTS						
5. ( ) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						
6. ( ) OTHER						
TOTAL SALARIES AND WAGES (A + B)						
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
TOTAL EQUIPMENT						
E. TRAVEL 1. DOMESTIC (INCL. CANADA, MEXICO AND U.S. POSSESSIONS)						
2. FOREIGN						
F. PARTICIPANT SUPPORT						
1. STIPENDS \$ _____						
2. TRAVEL _____						
3. _____						
SUBSISTENCE _____						
4. OTHER _____						
TOTAL NUMBER OF PARTICIPANTS ( )		TOTAL PARTICIPANT				
COSTS						
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						
2. PUBLICATION/DOCUMENTATION/DISSEMINATION						
3. CONSULTANT SERVICES						
4. COMPUTER SERVICES						
5. SUBAWARDS						
6. OTHER						
TOTAL OTHER DIRECT COSTS						
H. TOTAL DIRECT COSTS (A THROUGH G)						
I. INDIRECT COSTS (F&A) (SPECIFY RATE AND BASE)						
TOTAL INDIRECT COSTS (F&A)						
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECT SEE GPG II.D.7.j.)						
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$	\$	
M. COST SHARING: PROPOSED LEVEL \$		AGREED LEVEL IF DIFFERENT: \$				