

From: [Office of Sponsored Programs \(osp@uidaho.edu\)](mailto:osp@uidaho.edu)
To: [Office of Sponsored Programs Univ of Idaho - Post Award \(postaward@uidaho.edu\)](mailto:postaward@uidaho.edu)
Subject: FW: NSF Award Notice for Award ID 2119809 - Amendment ID 000
Date: Thursday, September 16, 2021 9:51:15 AM

From: dcoates@nsf.gov <dcoates@nsf.gov>
Sent: Thursday, September 16, 2021 7:39 AM
To: Office of Sponsored Programs (osp@uidaho.edu) <osp@uidaho.edu>
Cc: Ibrahim, Ahmed (aibrahim@uidaho.edu) <aibrahim@uidaho.edu>; bkv0003@auburn.edu; Manrique Hoyos, Carolina (cmanrique@uidaho.edu) <cmanrique@uidaho.edu>; jpwhite@nsf.gov; jswanson@nsf.gov; kalbuque@nsf.gov; Cai, Lili (lcai@uidaho.edu) <lcai@uidaho.edu>; Maughan, Michael (maughan@uidaho.edu) <maughan@uidaho.edu>; tjones@nsf.gov; yallen@nsf.gov
Subject: NSF Award Notice for Award ID 2119809 - Amendment ID 000

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2119809

Managing Division Abbreviation: OIA

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Regents of the University of Idaho

Awardee Address: Office of Sponsored Programs 875 Perimeter Drive MS 3020
MOSCOW, ID 83844-3020

Official Awardee Email Address: osp@uidaho.edu

Unique Entity Identifier (DUNS ID): 075746271

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 09/16/2021

Amendment Number: 000

Proposal Number: 2119809

Amendment Description:

The National Science Foundation hereby awards a Cooperative Agreement for support of the project described in the proposal referenced above .

The Foundation authorizes the awardee to enter into the proposed subaward arrangement

and to fund the subaward with award funds up to the amount indicated in the approved budget or NSF-approved post award request. The subaward should contain appropriate provisions consistent with Appendix B of the Research Terms and Conditions (RTC) dated November 12, 2020, or Articles 8.a.4. and 9 of the NSF Cooperative Agreement Financial & Administrative Terms and Conditions (CA-FATC) dated November 12, 2020 (as appropriate), as well as any special conditions included in this award.

Subawardee:

- Auburn University

This award includes funds from the EPSCoR program and those funds cannot be transferred to non EPSCoR jurisdictions.

AWARD INFORMATION

Award Number (FAIN): 2119809

Award Instrument: Cooperative Agreement

Award Date: 09/16/2021

Award Period of Performance: Start Date: 10/01/2022 End Date: 09/30/2026

Project Title: RII Track-2 FEC: Developing a Circular Bio-Based Framework For Architecture, Engineering and Construction Through Additive Manufacturing

Managing Division Abbreviation: OIA

Research and Development Award: Yes

Funding Opportunity: NSF 21-518 EPSCoR Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (RII Track-2 FEC)

CFDA Number and Name: 47.083 Office of Integrative Activities

FUNDING INFORMATION

Amount Obligated by this Amendment: \$992,148

Total Intended Award Amount: \$3,974,309

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$992,148

Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2022	\$998,606
2023	\$983,682
2024	\$999,873

PROJECT PERSONNEL

Principal Investigator: Michael Maughan

Email: maughan@uidaho.edu

Institution: Regents of the University of Idaho

co-Principal Investigator: Brian K Via

Email: bkv0003@auburn.edu

Institution: Auburn University

co-Principal Investigator: Ahmed Ibrahim

Email: aibrahim@uidaho.edu

Institution: Regents of the University of Idaho

co-Principal Investigator: Lili Cai

Email: lcail@uidaho.edu

Institution: Regents of the University of Idaho

co-Principal Investigator: Carolina Manrique Hoyos

Email: cmanrique@uidaho.edu

Institution: Regents of the University of Idaho

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)

Name: Daniel P McEnrue

Email: dpmcenru@nsf.gov

Awarding Official

Name: Deidre R. Coates

Email: dcoates@nsf.gov

Managing Program Officer

Name: John-David Swanson

Email: jswanson@nsf.gov

GENERAL TERMS AND CONDITIONS

This Cooperative Agreement (CA) is entered into between the United States of America, represented by the National Science Foundation (NSF), and the above named Awardee pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 USC 1861-1875). This CA is provided electronically to the Awardee. The Awardee is responsible for full compliance with all Programmatic and Financial/Administrative Terms and Conditions as initially stated or as updated over the life of this CA. The Awardee's request to draw down funds under this CA will represent acceptance by the Awardee of all Terms and Conditions of the CA. The Authorized Organizational Representative (AOR) will be electronically notified of any changes to these Terms and Conditions and is encouraged to immediately review these changes and contact the Grants and Agreements Official or Program Officer within thirty days with any questions.

CA-FATC

This award is subject to the Cooperative Agreement Financial & Administrative Terms and Conditions (CA-FATC), dated 11/12/2020, available at https://www.nsf.gov/awards/managing/co-op_conditions.jsp.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-518 EPSCoR Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (RII Track-2 FEC).

To view the Award Document in FastLane go to:

<https://www.fastlane.nsf.gov/researchadmin/emailLoginHome.do?awardId=2119809&amendmentId=000>

FATC AND PTC

Financial and Administrative Terms and Conditions (FATC)

A. The Foundation authorizes the awardee to enter into the proposed subaward arrangement and to fund the subaward with award funds up to the amount indicated in the approved budget or NSF-approved post award request. The subaward should contain appropriate provisions consistent with Appendix B of the Research Terms and Conditions (RTC) dated November 12, 2020, or Articles 8.a.4. and 9 of the NSF Cooperative Agreement Financial & Administrative Terms and Conditions (CA-FATC) dated November 12, 2020 (as appropriate), as well as any special conditions included in this award.

Subawardee:

- Auburn University

B. This award includes funds from the EPSCoR program and those funds cannot be transferred to non EPSCoR jurisdictions.

NSF reserves the right to phase-out, suspend or terminate this cooperative agreement at any time should progress be deemed unsatisfactory.

Programmatic Terms and Conditions (PTC)

1. Key Personnel: Key Personnel in this Cooperative Agreement are defined as the PIs, Co-PIs, and the members of the RII Track-2 FEC management team.

Except for the Principal Investigator(s) (PIs) or Co-PIs identified in this award, requests to make any changes to personnel, organizations, and/or partnerships specifically named in the proposal, that have been approved as part of this award, shall be submitted in writing to the managing NSF Program Officer for approval prior to any changes taking effect. Requests for prior approval of changes to the PI(s) or Co-PIs must be submitted through FastLane for review by the managing NSF Program Officer and approval by an NSF Grants Officer.

2. Program Description:

The purpose of the Research Infrastructure Improvement Program: Track-2 (RII Track-2 FEC) is to build interjurisdictional collaborative teams of EPSCoR investigators in

scientific focus areas consistent with NSF priorities. The awards are expected to provide support for sustainable improvements in collaborations among EPSCoR jurisdictions that build the critical mass to be nationally and internationally competitive in research and research-based education in science and engineering. RII Track-2 FEC activities build robust collaborations to address major challenges in the focused area of research and drive sustained discovery, innovation, and workforce development including recruitment or development of diverse early-career faculty.

3. Project Governance:

The Awardee will ensure that an efficient and effective project governing structure is in place throughout the award period to support all critical or significant project activities and that all project responsibilities are performed efficiently and effectively throughout the award period.

3.1. The PI will provide scientific and technical leadership, as well as overall program coordination, and will (a) report to NSF as deemed appropriate; (b) visit the campuses where research is being conducted to oversee project progress and meet with collaborators and stakeholders; and (c) ensure that the various stakeholders of the collaboration operate as a cohesive research enterprise progressing towards the realization of project goals and objectives. The PI and Co-PIs will be assisted by other project participants whose responsibilities include different aspects of the project including program management and coordination, fiscal and contract management, database administration, and communications.

3.2. Hiring of Faculty and other Key Personnel:

The PI is responsible for ensuring that participating institutions follow through recruiting and securing all proposed hires of faculty and other key personnel as established by the original project proposal and any award conditions. Any changes require prior NSF EPSCoR approval. The annual or final report must report on the status of faculty (and other key personnel) hires.

4. Reporting Requirements:

The Awardee will provide a strategic/implementation plan within the first 180 days for the project and will be updated as necessary through the project, as well as annual and final project reports with content, format, and submission timeline established by NSF. The awardee will submit the strategic/implementation plan(s) directly to the Program Officer. The Awardee will submit all required reports (e.g., annual, and final reports) via Research.gov using the appropriate reporting category; for any other reports, if required by the managing Program Officer, the Awardee will use the “Interim Reporting” function to submit reports.

4.1. Project reports must include the following:

4.1.a. Project Outcomes:

Annual and final reports must include a description of efforts, accomplishments, commitments, and plans to ensure that the positive outcomes of the project are documented and will be sustained beyond the duration of the award. This should include

quantitative data (e.g., numbers of new hires recruited and retained, progress towards recruitment and/or mentoring of early career faculty, proposal submissions, including inter-jurisdictional collaborative ones, award success rates, students involved in research, etc.). These reports may also include qualitative information such as descriptions of policies or programs proposed or implemented to enhance research competitiveness, integrate research and education, and promote partnerships and alliances that increase research capacity and support.

4.1.b. Broadening Participation:

The annual and final reports must provide the total number of participants in the activities funded by this award, including faculty, staff, students, and if applicable, members of all external advisory boards. In addition, the reports must indicate the numbers of women and groups underrepresented in STEM that participated in award activities. These data must be reported in aggregate for the project and for each participating institution. Demographic data by race, gender, and disability, should be provided in addition to education level (faculty, postdoctoral, graduate, undergraduate, K-12). Provision of demographic data is strictly voluntary, and must be collected in adherence to federal laws as well as the laws of the jurisdiction.

The first year of the RII Track-2 project serves as a baseline for reporting year-over-year improvements on increasing the participation of women and underrepresented minorities in RII project activities, including STEM research and education projects.

4.1.c. Development or Recruitment of Diverse Early Career Faculty:

The annual and final reports must provide evidence of the development or recruitment of diverse junior faculty from RII Track-2 FEC-supported activities.

4.1.d. Collaboration:

The annual and final reports must include evidence of enhanced collaboration among all of the consortium's universities and colleges.

4.1.e. Progress on Program Elements:

Annual and final reports must include evidence of progress in the development and implementation of plans required for the RII Track-2 FEC project, such as the interjurisdictional collaborations, workforce development, research capacity, jurisdictional impacts, and overall project integration. The progress made during the reporting period relative to the project goals for that period must be addressed. Modifications, if any, made since the last annual report should be addressed in the "Changes/Problems" reporting section.

4.1.f. Evaluation:

Progress in all aspects of the project must be evaluated annually. The annual project report must include a summary of the formative and summative evaluation findings, and a description of the course corrections, if any, made by the project management team based on the findings and recommendations of the evaluation report(s). See also 5.1a below.

4.1.g. Unobligated Funds:

The annual or final report must include an estimate of the funds expected to remain unobligated at the end of the current report period, as part of the “Changes/Problems” section (“Changes that have significant impact on expenditures”). If that estimate is greater than 20% of the current year award amount, the PI also must provide a plan and timeline for expenditure of those funds.

If more than 20% of the current year award amount continues to remain unobligated by the yearly anniversary date of the award, approval to carry that amount forward must be granted by NSF EPSCoR. The awardee’s Sponsored Projects Office should prepare the request, which must include a plan and timeline for expenditure of the funds, and submit the request via email to the managing NSF Program Officer.

5. NSF Ongoing Project Oversight:

The Awardee will ensure full commitment and cooperation among the governing structure components, and all project staff during all ongoing NSF project management and oversight activities. The Awardee will ensure availability of all key project and institutional partners during any desk or on-site review as well as timely access to all project documentation.

5.1.a. The project team must cooperate with NSF EPSCoR’s programmatic evaluation and assessment activities for the entire life of the award, including any No Cost Extension periods. In particular, the project team should work with EPSCoR’s designated entity for centralized project data collection and provide all required data in a timely manner. This data collection process complements but does not replace programmatic evaluation and assessment activities required of individual projects.

5.1.b. RII Track-2 FEC awardees must participate in site visits, reverse site visits, Principal Investigator meetings, video-conferencing, and other program management activities, as required by the managing Program Officer, to demonstrate progress relative to established goals and objectives of the project.

6. Project Specific Terms and Conditions

6.1. The reviewers identified that a connection to industry is critical for the eventual successful upscaling, commercialization, and implementation of the developed materials into the construction industry. Therefore by 90 days into the project, the team will develop plans for engaging with industry throughout the life of the project. This plan will be incorporated into the required strategic/implementation plan and progress will be reported on in each annual report for the life of the award.

BUDGET

A. Senior Personnel	
Senior Personnel Count	8.00
Senior Personnel Calendar Months	3.50
Senior Personnel Academic	0.00

Months	
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$32,472
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$46,800
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	5.00
Graduate Students Amount	\$109,200
Undergraduate Students	
Undergraduate Students Count	1.00
Undergraduate Students Amount	\$5,040
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	1.00
Other Amount	\$7,867
<i>Total Salaries and Wages (A+B)</i>	\$201,379
C. Fringe Benefits	\$35,218

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$236,597
D. Equipment	\$0
E. Travel	
Domestic	\$18,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$39,500
Publication Costs	\$0
Consultant Services	\$37,132
Computer Services	\$15,500
Subawards	\$407,213
Other	\$61,635
<i>Total Other Direct Costs (G)</i>	\$560,980
H. Total Direct Costs (A Through G)	\$815,577
I. Indirect Costs*	\$176,571
J. Total Direct and Indirect Costs (H + I)	\$992,148
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$992,148
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
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MTDC	47.5000%
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These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.