

INSTITUTE FOR CREATIVITY, ARTS, AND TECHNOLOGY

Major SEAD Grants Call for Proposals

Request for Proposals: Major SEAD Grants (Science, Engineering, Art, and Design)

Submission Due Date: March 13, 2017 (5:00pm EST)

Summary:

The Institute for Creativity, Arts, and Technology (ICAT) invites applications for projects that are creative, innovative, and show a strong potential for contribution toward the goals of ICAT and partnering units. These funds can be used to pursue a range of transdisciplinary activities including creative projects, pilot studies, feasibility studies, or preliminary research. It is expected that the projects funded by the SEAD grants will help catalyze larger projects (with possibilities for future funding), long term initiatives, or one-time events, performances and exhibitions that are visible at the national level.

Eligible Investigators:

All faculty members at Virginia Tech are invited to submit an application and lead a project team.

Funding Information:

- Awarded funds will be available July 15, 2017, and all project expenses must be posted to Banner within 30 days of the project's end date.
- Unspent funds must be transferred back to ICAT within 45 days of the project's end date.
- Funds will not be awarded for conference travel.

Research Areas:

Proposals should involve two or more of the following areas represented by the Institute:

- Visual arts
- Architecture
- Life sciences
- Earth sciences
- Physical sciences
- Industrial design
- Performing arts
- Education
- Engineering
- Human sciences
- Humanities
- Social sciences
- Technology
- Computer science

Grants Available:

Open Call for SEAD Projects - \$25,000

ICAT will fund transdisciplinary projects, pilot studies, feasibility studies, or preliminary research. Project teams must involve one or more of the research areas listed in this document. Project duration should be set for one year beginning July 1, 2017.

Special Project on Creative Technologies and Experiences - \$25,000

The Creative Technologies + Experiences (CT+E) Strategic Growth Area (SGA) develops 21st-century transdisciplinary students who are well-versed in the unique processes of collaborative environments and whose creative portfolios and capstone projects generate new, or address an existing, real-world opportunity. CT+E exists at the technology-mediated intersection of the arts, design, science, and engineering. Participants are uniquely empowered to focus on and to holistically explore opportunities while developing an integrative approach to thinking and problem solving. This is afforded by reimagining the traditional disciplinary model and by bringing together faculty from across the entire campus.

Research Initiation Grant - \$10,000

ICAT will fund a research initiation grant to support an interdisciplinary research mentorship project. The project should include faculty who have not previously worked together, with a pre-tenure faculty member leading the project. The ideal project will involve faculty members who have never applied to ICAT. The project should involve summer release time to support team development (including an end of summer report). Successful projects will lead to a major grant submission (internal or external) in the domain of ICAT the following year.

Special Project in support of the Catalyst program - \$30,000

The Catalyst program is a collaboration between ICAT, the Office of Economic Development, Apex Center for Innovation and Entrepreneurship, and the Office of the Vice President for Research and Innovation with a goal of promoting transdisciplinary collaboration, developing innovative practices and, fostering entrepreneurial endeavors of Virginia Tech students and faculty. This solicitation seeks proposals for projects that are creative and innovative, and show strong potential for contributing to the innovation and entrepreneurship ecosystem in the Blacksburg-Roanoke region. These funds can be used to pursue a range of transdisciplinary activities including creative projects, pilot studies, feasibility studies, customer discovery, market validation, or preliminary research that will lead to larger, longer-term projects that will boost regional economic development. This call is open to all investigational areas with preference to projects that operate at the nexus of business, design, arts, science, and engineering. Connections with companies and non-profit organizations with the potential for regional economic impact are highly encouraged, as are experiential learning opportunities for students.

Immersive Environment/Cube Project - \$25,000

ICAT is seeking proposals for transdisciplinary projects that will use the immersive visual and/or aural environment facilities in the Cube. Projects may include simulation, data visualization/sonification, architectural visualization/sonification, art, user studies, etc. The Cube facilities include

- Motion capture
- Immersive 360° projection
- Tetherless, multi-user virtual and augmented reality with head mounted displays
- Spatial audio

Project development support in the creation of immersive environments and the use of the facilities is available through ICAT staff. Significant development support may be built into the grant, substituting some portion of the grant for staff support.

Submission Process:

After you have entered your team data in the Google form, email a PDF copy of your submission including cover page with all necessary signatures to Holly Williams at hmccall@vt.edu by **5:00pm on March 13.**

Please address each section in your proposal using Times New Roman 12 pt. font. Proposal should be limited to 5 pages including images. Proposals received without cover sheet signatures will not be considered.

Submission Guidelines:

Step 1: Google Form:

Complete team information

- PI Name, Email, Home Department;
- Team Member Names, Emails, Home Departments
- Bios and expertise of team members unique to the project
- Current and pending funding of the PI(s)
- Budget and Budget Justification
 - Total budget request
 - Budget justification and amounts requested for:
 - Student time
 - Faculty salary time
 - Equipment
 - Materials and supplies

Step 2: Proposal Document (PDF submission to Holly Williams at hmccall@vt.edu): *Please address each section in your proposal using Times New Roman 12 pt. font. Proposal should be limited to 5 pages, including images.*

Statement of Need/Project Description

- Listing of research areas involved (see first page)
- Statement of innovation
- Linkage to ICAT mission and goals

- Vision of how this will impact ICAT
- Where project work will happen and if technical resources from ICAT are needed

Methods and Strategies

- Describe the activities that will be conducted as part of your project

Goals and Objectives

- Describe the overall outcome your project aims to achieve
- Describe project outputs
- Describe plans for future funding, exhibition, etc.

Plan for Evaluating Project Success

- Describe how you will determine if your project has been successful

Timeline

- Timeline should begin in July 2017 and end by June 1, 2018

Expectations of Funded Projects:

Funds: ICAT will transfer funds to the principal investigator's home department E&G fund upon acceptance of project. Any unspent funds should be returned to ICAT by May 15, 2018. Please have your departmental fiscal representative contact Lisa Jansen, Senior Grants and Contracts Manager, at ljansen@vt.edu or 231-1563.

Equipment: ICAT will have first option on the disposition of ownership of all material, supplies, and equipment. Equipment not owned or maintained by ICAT will be returned to the project PI with the understanding that ICAT will have access to said equipment pending request and availability.

Reporting: Project updates should be submitted to ICAT once a month during the project's duration. A final 2-3 page report will be submitted to ICAT no more than 30 days after project completion that describes project outcomes and how the funds were expended. A final report template will be provided by ICAT for completion and will be submitted to Lisa Jansen at ljansen@vt.edu.

ICAT Engagement: Representatives from each project are expected to participate in outreach and engagement, including giving an ICAT Playdate presentation to showcase the project as well as participation in the upcoming ICAT Creativity and Innovation Day in the year the project is funding. Projects may also be considered for display during ICAT's Open (at the) Source exhibition each spring, Virginia Tech Science Festival, Science Museum of Western Virginia, school tours, and kindergarten-to-college, as feasible and appropriate.

Resources: It is expected that the investigators have all resources necessary (space, equipment, etc.) to complete their project with the exception of the items and personnel requested in the proposal.

University policy: All university policies and procedure must be observed.

Logo: The official Virginia Tech/ICAT logo can be provided upon request.

Sample Credit Lines: The {title of project} has been made possible in part by a grant from Virginia Tech's Institute for Creativity, Arts, and Technology.

Publications: Please include the following language on any publications or publicity/marketing materials (VT news releases, etc.) stemming from ICAT funded research: "This work has been partially supported by a grant from the Virginia Tech Institute for Creativity, Art, and Technology."

Printed Materials: Printed acknowledgments and publicity materials are expected to carry the Virginia Tech/ICAT logo. The name of the institute in the logo must be legible and no smaller than 5 points. If the logo is not appropriate for the design, the credit line may be substituted in an appropriate type size. For large posters, etc., the point size should be correspondingly larger.

Films and Videos: An acknowledgment of support must be included at the beginning and end of each funded program and in all non-broadcast materials related to the project, including any elements of production re-purposed for distribution as digital media. The ICAT credit for film and television programs must be at least ten seconds long. ICAT is to be acknowledged in videos funded as part of an exhibition or other public programs, as well as in films broadcast on television. If the filmmaker intends to vary the design of the credits, ICAT must approve the new format that is created.

Audio and Radio Materials: An acknowledgment of support must be contained at the beginning and end of each program and in all non-broadcast materials related to the project. ICAT should be credited for radio programs, and for recorded audio tours of exhibitions.

Exhibitions/Workshops: The acknowledgment of support, the Virginia Tech/ICAT logo and the disclaimer language should appear on signage at the entrance to the exhibition or workshop, on brochures and catalogs, and on exhibition or workshop video materials and websites. These requirements apply to the host site for the exhibition or workshop and to all participating venues. It is the grantee's responsibility to convey this requirement to all venues as part of the contract.

Digital Projects: When possible, hyperlinks must be made between the project and the ICAT website (www.icat.vt.edu). All digital projects (including games and apps) released via a third party are also expected to include an acknowledgment of ICAT support in the promotional description of the project (for example: in the 'Description' section of the Google Play or iTunes stores). Additionally, all digital projects must incorporate the following ICAT-specific keywords: Virginia Tech; Institute for Creativity, Arts, and Technology; ICAT

Websites: Hyperlinks must connect the project's website and that of the ICAT website (www.icat.vt.edu).

Public Events: At programs or public gatherings related to the project, ICAT must be acknowledged orally as sponsor. Signage at the event must acknowledge ICAT support.

Promotion and Advertising: The design for all print, promotion, and advertising related to the project must be submitted to the director of marketing and communication for approval prior to implementation. All promotion must include the acknowledgment of ICAT support and the ICAT logo; the credit line should be used whenever possible. This includes publicity campaign materials, publications, advertisements, press kits, press releases, wall panels, educational programs, special events, and receptions. Unless there is an agreement with the ICAT Director to the contrary, all press releases and media pitching will be carried out by ICAT's marketing office. The official spokesperson for ICAT is Director Ben Knapp.

Print and Electronic Use: Summaries, along with images, clips, screen shots, or the like of all ICAT-funded projects must be made available to ICAT for use in its publications and on its website.

Review Criteria:

The proposals will be reviewed by the Institute Director, Associate Director, and ICAT Senior Fellows, and then evaluated based on the following criteria:

1. Intellectual merit and innovation;
2. Interdisciplinary nature of the team
3. Correlation to the mission of ICAT and its studios;
4. Broader impact of the project;
5. Potential channels to advance the proposed research
6. Timeline
7. Clear outcome and deliverables
8. Alignment with project categories and/or themes

After the proposals are reviewed, a member of the proposal team may be asked to make a brief presentation to the review committee.

Awards will be announced by **April 7, 2017**.