Title of Proposal: ____________________________________________

Names of Lead Investigators (please type/print and sign):

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<th>Name (Contact PI)</th>
<th>Department</th>
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Department Head/Chair or Center Director Approval:
By signing, I confirm that I support the faculty member’s application and any associated requirements for my department or center:

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Please indicate the grant you are applying for:

- [ ] Open Call for SEAD Grants ($25,000)
- [ ] TLOS/ICAT Special Project on Learning Environments ($30,000)
- [ ] Library/ICAT Special Project on Immersive Knowledge Discovery ($20,000)
- [ ] ISCE/ICAT Special Project on Human-Centered Smart Environments ($30,000)
Major SEAD Grants Call for Proposals

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

Submission Due Date: March 18, 2016 (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.

Research Areas:

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

• Visual arts
• Architecture
• Behavioral sciences
• Performing Arts
• Education
• Engineering
• Human sciences
• Humanities
• Social Sciences
• Technology
• Computer Science
Funding Information:

- Awarded funds will be available July 1, 2016 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.

Grants Available:

Open Call for SEAD Projects - $25,000 (3 available)
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, 2016.

In addition to the above SEAD open call, ICAT is partnering with the University Library, TLOS, and ISCE on the following calls for proposals:

Library/ICAT Special Project on Immersive Knowledge Discovery Environments - $20,000 (1 available)
The University Library and ICAT are looking to explore new methods of accessing both print and digital materials. The library collection is becoming decentralized with books and other content available on campus and in offsite storage facilities, as well as online through a multitude of different vendors.

Proposals are sought that explore virtual/augmented library environment(s) that enable serendipitous discovery. We imagine a system that transcends locality and format. Collaborative exploration, personalization, and co-working/co-learning are also elements of modern information discovery that should be factored into the experience.

The investment in this project by the Library and ICAT would be phased to have initial prototypes and discovery applications. Phases will move from initial scenario prototypes to full adaptive environments. Expectation is that this work would lead to external funding that would augment this investment in information retrieval.

Proposals will
- have a team that represents the broad spectrum of knowledge needed to create a new virtual/augmented environment for information exploration.
- have a phased approach
- propose an environment that creates a natural methodology and metaphor (books on a shelf is the obvious example) for information retrieval.

For the proposal selected, the Library will provide a workspace for team collaboration.
TLOS/ICAT Special Project on Learning Environments - $30,000 (1 available)

TLOS and ICAT support activity that revolutionizes research where technology, physical infrastructure, and pedagogy meet. TLOS and ICAT are specifically requesting proposals that explore collaborative teaching and learning environments which emphasizes area such as:

- aligning teaching content with preparation of the learning environment, and teaching strategies;
- environment design to monitor and support interdisciplinary activities;
- determining the infrastructure needs that allow for the interdisciplinary activities;
- the multi-place experience of being a student;
- sensor-rich environments that allow for multi-modal communication and feedback in learning/collaborative environments, and more.

ISCE/ICAT Special Project on Human-Centered Smart Environments - $30,000 (1 available)

ISCE and ICAT support innovated, collaborative, cross-disciplinary research that enhances the everyday lives of individuals, families, and communities. In addition to the above SEAD open call, ISCE and ICAT have joined together to request proposals from interdisciplinary teams that explore human-centered smart environments focused on issues such as

- integrating data for smarter cities and towns
- designing home and community environments to monitor and support lifelong wellness
- evaluating use and effectiveness of self-care technologies
- incorporating novel and emerging technologies to promote aging in place

Submission:

Please submit your proposal by 1) sending an electronic PDF copy of the signed cover sheet contained in the RFP to Lisa Jansen (ljansen@vt.edu), and 2) submitting an online copy of your proposal using our Google submission form. (https://docs.google.com/a/vt.edu/forms/d/1JGZhuP0cNFiiKVwDqwxdb8c8t1qwwGWgNn50OvhVmT0/viewform) Please indicate the category of project you wish to be considered for. If you have any questions, please contact Lisa Jansen (ljansen@vt.edu).

Review Criteria:

The proposals will be reviewed by the Institute Director, Senior Budget and Contract Manager, and the Senior Fellows, and then evaluated with 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 external funding can be obtained to advance the proposed research.

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 8, 2016**.