DEVELOPING STRONG NSF PROPOSALS FOR THE ITEST AND CYBERLEARNING PROGRAMS

June 9-10th, 2015
WORKSHOP GOALS

• Understand the goals of NSF's ITEST & Cyberlearning programs
• Understand the NSF proposal preparation process
  • Locations for resources
  • Proposal review process
  • Understand what makes a compelling concept for NSF
  • Elements for writing a competitive/fundable proposal.
• Understand how to use STELAR & CIRCL as a resource
• Feel connected and contribute to the CoP
• Learn the impact of ITEST projects on participants; hearing from the educator and youth point of view.
WORKSHOP OVERVIEW

DAY ONE

• Introduction to NSF and proposal development process
• Greetings from Dr. Brian Johnson, 7th President Tuskegee University
• Collaboration and networking lunch
• Separate workshop strands for ITEST and Cyberlearning
• Workshop ends for ITEST attendees
• Working dinner for Cyberlearning attendees

DAY TWO

• Sharing Cyberlearning research project ideas
Workshop Project Team

EDC:
• Sarita Pillai
• Caroline Parker
• Joyce Malyn-Smith
• Bernadette Sibuma
• Rebecca Bangura

SRI: Shuchi Grover

Tuskegee: Professors Chadia Affane and Javed Khan

National Science Foundation: Robert Russell
Cyberlearning Program Committee

- Tammy Clegg — Assistant Professor, Department of Teaching and Learning, Policy and Leadership, University of Maryland
- Lewis Johnson — President/CEO Alelo, Inc
- Jacob Martinez — Executive Director Digital NEST
- Robert Blaine — Dean of Undergraduate Studies & Cyberlearning, Jackson State University
- Richard Alo, Jackson State University
- M. Javed Khan, Professor & Head Aerospace Science Engineering, Tuskegee University
- Chadia Aji — Associate Professor, Mathematics, Tuskegee University
CIRCL• Our purpose

The Center for Innovative Research in Cyberlearning seeks to amplify research-based voices by:

• Nurturing community among projects, investigators and those new to the field
• Addressing common needs
• Planning for the future
• Creating broader impact together

SRI Leads, EDC brings best practices, NORC evaluates

SRI Education  EDC Learning transforms lives.  NORC at the UNIVERSITY of CHICAGO

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CIRCL • Priority Activities

• **Events**: annual major meetings, working groups, webinars

• **Brokering**: helping connect investigators, projects and newcomers to knowledge and resources

• **Synthesis and Web Site**: creating a public space to highlight contributions, share findings, build community and capacity

• **Portfolio Analysis**: understanding the funded projects

• **Sharing Data**: as needed by NSF and others

• **Broadening Participation**: in the cyberlearning CoP to include institutions and individuals currently underrepresented
CIRCL • What can CIRCL do for you?  http://circlcenter.org
New to Cyberlearning? Get started here.

New technologies change what and how people learn. Informed by learning science, cyberlearning is the use of new technology to create effective new learning experiences that were never possible or practical before. The cyberlearning movement advances learning of important content by:

- Applying scientific insights about how people learn
- Leveraging emerging technologies
- Designing transformative learning activities
- Engaging teachers and other practitioners
- Measuring deeper learning outcomes
- Emphasizing continuous improvement

To learn more, here are some suggested next steps:

Watch “What is Cyberlearning?” produced by KQED Education:

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Access proposal development resources

NSF Cyberlearning Proposal Resources

Resources to help you develop a strong proposal for the NSF Cyberlearning and Future Learning Technologies Program. These materials were developed by NSF for NSF Cyberlearning Solicitation Webinars hosted by CIRCL.

Program Overviews, Tips, Checklists, Guiding Questions

- Introduction to NSF for Cyberlearning (Slides) [PDF]
- The NSF Cyberlearning Program (Slides) [PDF]
- Cyberlearning Proposal Checklist [PDF]
- Common Reasons Cyberlearning Proposals are Not Recommended for Funding [PDF]
- Guiding Questions for Cyberlearning Proposal Reviewers [PDF]

Special Considerations

- Cyberlearning INT Special Considerations [PDF]

Webinars Archives (Recordings, Q&A, Slides)

- May 2015 – NSF Solicitation Webinar
- December 2014 – Writing a Winning Cyberlearning Proposal Webinar
CIRCL • Connect, collaborate, create

Perspectives

Learn about researchers, teachers, industry, informal learning and other stakeholders in the cyberlearning community, what drives their work, and what they think the community should be doing.

What's your view on Cyberlearning? Use this quick form to let us know.

administrator  graduate student  industry  informal  postdoc  researcher  teacher  All

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CIRCL • Identify synergistic projects

Projects

CIRCL Spotlights illuminate some of the different cyberlearning projects across NSF, including projects funded by the NSF Cyberlearning Program and projects funded by other NSF programs whose work has a cyberlearning theme. A tag map of funded projects is also available.

Want us to spotlight your project?
Contact us to contribute your story.

LEARN ABOUT OUR COMPLEX WORLD THROUGH MAP-BASED GAMES!
CIRCL Spotlights illuminate some of the different projects...

HEAD-MOUNTED DISPLAYS IN DEAF EDUCATION
CIRCL Spotlights illuminate some of the different projects...

REVOLUTIONIZING EDUCATION IN HAITI
CIRCL Spotlights illuminate some of the different projects...

UNDERSTANDING SUSTAINABILITY THROUGH DISCOVERY AND PLAY
CIRCL Spotlights illuminate some of the different projects...

LINKING SUPERHEROES AND TECHNOLOGY TO STEM ASPIRATIONS
CIRCL Spotlights illuminate some of the different projects...

SYNERGISTIC TEACHING OF COMPUTATIONAL THINKING AND SCIENTIFIC MODELING
CIRCL Spotlights illuminate some of the different projects...

MIXED REALITY BRINGS SCIENCE CONCEPTS TO LIFE
CIRCL Spotlights illuminate some of the different projects...

ACTIVITY MONITOR GAME INCREASES YOUTH FITNESS
CIRCL Spotlights illuminate some of the different projects...

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Big Ideas

Read CIRCL synthesis statements, review resources for writing strong proposals to the NSF Cyberlearning Program, watch NAPLeS webinars, subscribe to edSurge, read the Cyberlearning Educators blog, search the digital collection of resources from Informal Commons, browse NSF project and program data in DIA2, and more.

Have ideas or resources to suggest? Contact CIRCL

Synthesis Statements

CIRCL synthesis statements summarize effective use of advanced learning technologies that are integrative, innovative, empirically grounded, and widely useful. Want to contribute? Let us know.

| THE CUTTING-EDGE OF INFORMAL LEARNING: MAKERS, MOBILE, AND MORE! |
| GAMES AND VIRTUAL WORLDS |
| PARTNERING FOR IMPACT: INCREASING CYBERLEARNING’S INFLUENCE IN EDUCATION MARKETS |
| TECHNOLOGY ENABLED FORMATIVE ASSESSMENT |
| COLLABORATIVE LEARNING |
| EDUCATIONAL DATA MINING AND LEARNING ANALYTICS |
| AI APPLICATIONS IN EDUCATION |
| LEARNING SCIENCES |

Cyberlearning spans in-school and out-of-school learning—and those days, a lot of meaningful learning is...

Computer-based games and virtual worlds provide opportunities for players to think about choices, take action, and...

Many Cyberlearning researchers know that their work could make...

Formative assessment occurs when teachers check student understanding and guide decision making to improve learning.

The Learning Sciences is a field of scientific research that developed in the 1980s, from influences...

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CIRCL • Join a vibrant community of practice

Events

Learn about upcoming CIRCL events like Cyberlearning 2015, and access archives from past events.

Browse a calendar of other cyberlearning-related conferences and events. Please let us know about other cyberlearning events in the community.

- **CYBERLEARNING 2015: CONNECT, COLLABORATE, AND CREATE THE FUTURE**
  - January 27-28, 2015 in Arlington, VA A gathering of participants with a...

- **CYBERLEARNING SUMMIT 2014**
  - On June 9-10, 2014, CIRCL hosted the 2014 Cyberlearning Summit at the...

- **NSF CYBERLEARNING INTEGRATION (INT) PROPOSAL WEBINAR**
  - Monday, June 2nd from 3pm - 4pm ET An informational webinar on...

- **PARTNERING FOR IMPACT 2014**
  - On March 26 and 27, 2014, SRI hosted an intensive two-day workshop...

- **NSF CYBERLEARNING SOLICITATION INFORMATION WEBINAR**
  - Tuesday, February 18th from 1pm - 2:30pm ET An informational webinar on...

- **SYNTHESIS AND ENVISIONING 2013**
  - A gathering of NSF-funded cyberlearning projects to synthesize what is known and...

- **CYBERLEARNING SUMMIT 2012**
  - The 2012 Cyberlearning Research Summit was a high-profile gathering in Washington DC...
CIRCL • Follow us, contribute, stay connected!

http://circlcenter.org

circl-info@sri.com
STEM Learning and Research (STELAR) Center
What We Do

• Facilitate projects’ success through **technical support** with a focus on synthesis of findings

• Inform and influence the field of STEM stakeholders by **disseminating** project findings nationally

• Deepen the impact and reach of the ITEST program by **broadening participation** in the ITEST portfolio
Who We Are

• Partners: EDC, Inc. + Goodman Research Group, Inc.
• Staff
  – PIs – Sarita Pillai, Carrie Parker
  – Senior staff – Joyce Malyn-Smith
  – Supporting staff – Bernadette Sibuma, Rebecca Bangura, Becca Schillaci (absent), Sarah MacGillivray (absent)
  – Evaluator - Karen Gareis, Goodman Research Group, Inc.
Some of Our Activities

- **Webinars:** Effective Dissemination, Designing Research for ITEST Projects, Mentoring Models
- **Monthly Newsletter:** Information to stay updated on all things STEM and ITEST
- **Project Liaisons:** A STELAR staffer who works directly with each project to provide resources and make connections
- **Regional and Thematic Meetings:** A way for current projects to network with each other
- **Management Information System (MIS):** Annual collection of project information about what projects do, who they work with, what they have achieved
Find Resources on STELAR Website
Get Ideas for Designing your Proposal

ITEST Proposal Development

Are you considering submitting a proposal to ITEST? You have come to the right place. The resources under each heading below provide valuable information to help you develop a competitive proposal.

- The ITEST solicitation webinars provide an overview of the ITEST program as well as details on what to include, and what not to include, in your proposal.
- STELRP sponsored webinars demonstrate how previous ITEST projects have tackled topics that are of interest to the ITEST program.
- Data and Info Briefs are publications that summarize the activities of the ITEST projects in a given year. Knowing what has been done previously may help you develop an innovative proposal.
- Other publications provide background information on topics that are of interest to the ITEST program.

In addition, we suggest you also peruse the other areas of the STELR website to learn more about your specific area of interest. We encourage you to browse the project profiles to see what projects have already been funded; read [TEST Program Findings] to discover what the previously funded ITEST projects have learned from their research and implementation efforts; and search within resources to find instruments and curricular materials used and developed by ITEST projects.

- GET TO KNOW ITEST
- PREPARE YOUR PROPOSAL FOR SUBMISSION
- DEVELOP A ROBUST RESEARCH DESIGN
- CREATE AN EFFECTIVE EVALUATION STRATEGY
- CONNECT WITH PARTNERS
- REACH UNDERSERVED POPULATIONS
- DEVELOP THE WORKFORCE OF THE FUTURE
Find Project Profiles

Search Results

Projects

1 - 8 of 19

Advancing Geospatial Thinking and Technologies in Grades 9-12: Citizen Mapping, Community Engagement, and Career Preparation in STEM

Given recent advancements in geospatial technologies and the expanding geospatial technology industry, this project is timely in its focus on spatial thinking and strengthening geospatial technology skills among high school students.

READ MORE »

Back to the Earth
Connect with others via the People Connector

http://stelan.edc.org/opportunities/people-connector-directory

People Connector Form

People Connector Directory
Join our Community of Practice
And lots more!

Resources

SEARCH FOR RESOURCES
Multiple criteria within a first condition. Multiple fields are available.

- TEXT SEARCH
- RESOURCE TYPE
- DISCIPLINE(S)
- TOPIC(S)

Apply Filters

$1.1 million grant will fund 3 years of scientific research

News:

ITEST project WNY Genetics in Research Partnership has secured funding to enable teachers and high school students from 13 counties in Western and Central New York to conduct scientific research in bioinformatics during the next three years.

Dissemination Strategies

Highly effective dissemination strategies are crucial to a project’s impact but projects often struggle with how best to synthesize and share findings and to identify which venues to pursue to best reach their target audiences. The resources compiled here share considerations and program strategies related to dissemination, tools and technologies that can be employed, examples of new dissemination venues or modalities such as social media, online journals, and other lessons learned, successes and challenges to effectively disseminating project findings.

STELAR Newsletters

Upcoming Opportunities

Call for Papers: IEEE TLT Special Issue on Wearable Tech and the Internet of Things in Education/Training
Due by Monday, June 15, 2015 | READ MORE>

Journal of Science Education and Technology - ITEST Special Issue Call for Papers
Due by Monday, June 15, 2015 | READ MORE>

U.S. News STEM Solutions National Leadership Conference
Due by Monday, June 29, 2015 | READ MORE>

The Saint Paul Foundation - Advancing Racial Equity Grant Opportunity
Due by Tuesday, June 30, 2015 | READ MORE>

People Connector Directory for ITEST Proposals
READ MORE>

STELAR Newsletter

Current Newsletter →
NEWSLETTER ARCHIVE

STELAR Monthly Highlight

Dissemination Strategies
read more->
STELAR is on Social Media – Stay in Touch!

Contact us: stelar@edc.org

“Like” us: https://www.facebook.com/stelarctr

Follow us: https://twitter.com/STELAR_CTR

Watch us: https://www.youtube.com/user/stelarcenter

Find resources: http://stelar.edc.org/