Seven Lessons Learned **Over Eight** Years of Hosting the National ITEST Learning Resource Center



Joyce Malyn-Smith , Ed.D., Principal Investigator Siobhan Bredin, Ed.M., Co-PI/Project Director Education Development Center, Inc.











ITEST Learning Resource Center Revised Logic Model – June, 2010

ITEST Program Goals (Solicitation 09-506):

• To produce research findings that build knowledge about approaches, models, and interventions with youth and educators that are most likely to increase the nation's capacity and innovation in the STEM workforce of the future.

• To develop, implement, study and evaluate strategies that encourage youth to develop interest in and to be prepared for careers in the STEM workforce of the future.

• To equip teachers with the resources to ensure that their students consider choosing and are prepared to enter the STEM workforce of the future.

ITEST LRC Mission: To support achievement of the ITEST program goals through:

· Increased knowledge and capacity among ITEST PIs and their teams to design, evaluate and refine their work to achieve individual project goals

• Synthesis, analysis and documentation of the collective experience and results of ITEST projects

• Dissemination of the knowledge created in the ITEST program to inform the field of STEM workforce development

ITEST LRC Target Audiences: a) *Primary:* All ITEST Projects (PIs, Evaluators, Project staff) & National Science Foundation b) *Secondary:* Other stakeholders in building the STEM pipeline (Professional Associations, Non-ITEST Educators, legislators, other policy makers) c) *Tertiary:* Student & educator participants of ITEST projects.

RESOURCES In order to accomplish our activities, we will draw upon the following:	ACTIVITIES In order to accomplish our goals, we will undertake the following activities:	OUTPUTS We expect that once accomplished these activities will produce the following evidence:	SHORT- AND LONG- TERM OUTCOMES We expect that if carried out, these activities will lead to the following intermediate changes:	IMPACT We expect that if carried out, these activities will have the following impact:
 ITEST PIs, evaluators, project staff and other audiences as identified above Sufficient staff with expertise to design and implement technical assistance, data gathering and dissemination activities Advisors and partners with science, engineering, and mathematics content knowledge, expertise and networks to inform and strengthen LRC activities Guidance, funding and support from NSF Knowledge sharing with other NSF resource centers through DRLnet, and others Innovative technologies, specifically collaborative and social media tools and infrastructure 	Technical Assistance and Collaboration Provide community-wide and individual project technical assistance Provide an infrastructure for participation, collaboration, professional development Facilitate knowledge sharing; new knowledge generation and dissemination Data Gathering and Synthesis Establish and maintain a system for collecting reports and other data from projects Produce findings that describe the characteristics, knowledge generated and outcomes of ITEST projects Disseminate research, models, strategies and practices from the ITEST program	 Annual PI interest and expertise (TA) survey # TA events Annual Summit # liaison activities # small groups # publications* Website usage (internal community) # conference presentations* MIS data collection and reporting Collection & synthesis of data from reports Database of information on ITEST projects & participants Yearly updated snapshot Yearly updated PAG Continually updated website Timely response to NSF information requests # SIGs/Conference strands with professional associations* # publications* # conference presentations* Website usage (public) 	 ITEST Community members report changes in practice due to participation in TA activities such as: Complete TA survey Attend TA events Access online resources Contact liaisons with updates and questions Small groups generate and disseminate new knowledge through webcasts, conference presentations, and publications NSF staff have the information needed to understand the ITEST portfolio, work effectively with PIs, and report to stakeholders within and outside of NSF ITEST projects are informed about the state of the ITEST projects, how often, when, and in what kind of activities Other stakeholders in building the STEM pipeline become aware of and use reports, research and resources from the ITEST program 	 Increased student participation in the STEM workforce, especially by those currently underrepresented in STEM fields (maps to Goals 1 & 2) Increased knowledge, and adoption, of effective ITEST program models, interventions, strategies and research-based practices (maps to Goal 2 and 3) Learnings from the LRC evaluation can inform future resource center design for NSF and other funders' programs
* = Enabled by LRC	BENCHMARKS/INDICATORS:	PI/project satisfaction with TA events; P projects; Productive use of the LRC's we of reach of information about ITEST, its provided	Productive use of information from TA events and be portal by projects and others; LRC responsiven projects, and their findings; Extent of follow-up o	LRC liaison interaction by ess to project needs; Extent conducted in response to TA

















Contact Information

Joyce Malyn-Smith, Ed.D. Principal Investigator jmalyn-smith@edc.org 617-618-2386

Siobhan Bredin, Ed.M. Co-Principal Investigator/Project Director <u>sbredin@edc.org</u> 617-618-2916

Education Development Center, Inc. 55 Chapel Street, Newton MA 02458 <u>www.edc.org</u>

