**NSF 2017 Conference**

**Education & Human Resources (EHR) Tips**

***EHR projects must view learning IN CONTEXT OF STEM.***

**EHR Directorate**

* To advance STEM learning through research across lifespan
* To achieve U.S. excellence in formal and informal settings
* Develop diverse and well-prepared workforce.
* Develop a well-informed citizenry

Increasingly important:

Virtual worlds; augmented reality; citizen science; online learning; games & social media; museums, science centers; afterschool programs; “making”

**Contacting Project Officers:**

* “Ask early, ask often”
* Email PO’s re your project ideas*.*
* Attach well-developed 1 pager on theory, innovation, hypotheses, methods, intellectual merit,
* Include 4 sentences on broader impact.
* Then schedule meeting / discussion

**EHR Proposal Tips:**

* Funding rates about 20% for this program (*0% if you don’t submit)*
* Write for a broad audience (not experts)
* Establish feasibility (often via pilot studies)
* Connect theoretical frameworks to proposal activities
* Well-developed analytic plan
* Be specific about method and predictions

**EHR General Tips:**

* Methods can be qualitative or quantitative, or mixed.
* Contribute to generalizable knowledge.
* Evaluation of process and outcomes is necessary.
* Advisory board, peer review or external evaluators are OK.
* Get feedback on drafts
* Volunteer to serve as a reviewer; suggest reviewers
* Sign up for NSF social media sites also to stay current.

**EHR Core Research**: foundational research for strategic improvement of STEM Ed. Supporting STEM workforce development. (e.g., connection between language development in early childhood and later STEM participation. To promote increased participation in STEM esp. URMs). Build theoretical foundations.

**ITEST:**

* Interested in projects that engage students with business and industry thru partnerships.
* Examine mentorship or effectiveness of adult volunteers with disciplinary expertise.
* (Leverage communities to provide sci /tech connections when kids are young)
* Improve critical thinking skills that transfer across disciplines and into career settings.
* Critical thinking skills that transfer across disciplines and contexts
* Non-cognitive skills. (e.g., interest development, motivation, persistence, citizen science, etc.)

**Social, Behavioral, Economic Sciences (SBE).** Average duration = 3 yrs

Behavioral and Cognitive Sciences (BCS): supports research on cognition, language, social behavior, culture, interactions between society and environment

BCS programs that apply to COE: Developmental science ; Endangered languages; Perception, Action and Cognition; Linguistics; Science of Learning; Social psychology

SES*:* Average $125,000 a year, direct and indirect ($350,000). *Smaller than other programs*

*PI’s can propose workshops. Contact program director to pitch your idea, find out is this is of interest*

CAREER for SES:

* For tenure track faculty (early career, without tenure). Min $400K, 5 yrs, single investigator
* Webinairs are very helpful!
* Max 3 submissions (one per year).
* Read SES CAREER abstract examples.
* Projects must be transformational.

Cross Directorate Initiatives that apply to COE: CCE STEM, ADVANCE

INCLUDES:

* Speaker says NSF is prioritizing this program
* Dynamics of coupled natural and human systems
* Quantitative, interdisciplinary analysis of human/ natural systems.
* Key personnel must be from BIO, GPE, SBE fields