Appendix A: PIRE Program Logic Model

INPUTS

- Funding
- NSF and peer reviewer staff time
- Applicant pool and time
- Partner organizations' missions and priorities
- State of STEM fields
- Priorities for targeting STEM research to address societal challenges



EXTERNAL FACTORS

Availability of funding at NSF and partner organizations (domestic & foreign); scientific and technological advancements; NSF and partners' priorities; economic and political conditions in partner countries and in the US

PROCESSES

NSF

- Program solicitation and proposal management and review
- Identification of high quality projects which cannot be accomplished without international collaboration
- Coordination with domestic and foreign STEM agencies for cofunding arrangements
- · Grants management and reporting
- Dissemination of results to stakeholders

GRANTEES

- Identification and cultivation of international partners critical to the research
- Proposal development
- Execution of research projects with foreign collaborating researchers and institutions
- Recruitment and training of scholars
- · Dissemination of results
- Reporting and grants management

OUTPUTS/OUTCOMES

SHORT-TERM OUPUTS (1-5 YEARS)

- Papers, tools, methods, interventions, technology and information products
- Students, early career researchers engage in international research collaboration

SHORT-TERM OUTCOMES (1-5 YEARS)

- Research advancements in critical STEM problems
- Sustained international collaborations
- Improved support for international collaborations in U.S. institutions
- Wider global dissemination of knowledge, tools & methods needed for discovery and innovation
- New dissemination outlets for research
- Greater inclusion of international co-PIs in subsequent grant applications/awards

INTERMEDIATE OUTCOMES (6-10 YEARS)

- Scientific discoveries that would not have occurred without international partnerships
- Higher level of international engagement in the US STEM community

LONG-TERM OUTCOMES (>10 YEARS)

- International partnerships become normative in U.S. STEM community
- Diverse and globally engaged STEM workforce in the U.S.
- International cooperation in addressing societal problems