



# How Many Hats do You Wear?

## Building Research Capacity for STEM Faculty Development: An NSF Sponsored Workshop



Sandra M. Linder (CoPI) and Faiza Jamil (Co-PI): College of Education)

Cindy Lee (CoPI) and Karen High (PI): College of Engineering, Computing and Applied Sciences

### Purpose of the Project

This project focused on an NSF funded workshop (NSF grant #EEC-1638888) designed to bring together multiple stakeholders in academia, government, and industry to begin to establish a research agenda for holistic STEM faculty development (STEM FD).

### Participants

A total of 130 individuals submitted a complete application to attend. Reviewers rated each applicant using a rubric assessing applicant engagement in faculty development, engagement in faculty development research, and understanding of faculty responsibilities. A total of 53 participants attended the workshop, with 11 of the attendees coming from the home institution.

- 95% work(ed) at an academic institution
  - 82% faculty,
  - 27% director,
  - 20% administrator
  - 5% as manager.
  - 30% early career phase, 50% as mid, 18% as late, and 2% as emeritus.
- 5% work(ed) for foundations
- 4% work(ed) in government-related positions.

### Two-Day Workshop

February 17-18, 2017: Clemson University

#### Goals:

- Breakout groups around three threads of research
- Opportunities for in depth discussion of research needs for STEM FD
- Examination of themes across each thread
- Examination of connections between themes for each thread



### Workshop Threads for Holistic STEM FD

- Thread 1: Inputs for Holistic Faculty Development
  - Motivation
  - Engagement
  - Institutional Expectations
- Thread 2: Mechanisms/Processes for Holistic faculty development
  - Implementation Structures
  - Assessment/Evaluation Procedures
  - Fidelity of Implementation
- Thread 3: Outcomes of Holistic Faculty Development
  - Faculty Identity and Wellbeing
  - Productivity and Metrics
  - STEM Cultural Norms

### Products

Workshop proceedings: description of the workshop, results from pre and post participant surveys, and products from workshop sessions.

Draft research agenda: based on concept maps created through the workshop.