

Preparing Future Faculty to Improve STEM Education: Broadening the National Impact of the CIRTLL Network



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Disciplinary Learning Communities

Purpose: To meet a new cohort of future faculty where they work: their department.

Outcomes:

- Departmental needs assessment instrument for teaching and learning professional development (in process for dissemination)
- Instructional framework for DLCs
- [Curricula for DLCs](#) in chemistry, life sciences, statistics, sociology

Teaching Assistant Learning Communities

Purpose: Provide teaching development that is integrated with the TA teaching experience.

Outcomes:

- [EPIC: Exploring Practices in the Classroom](#)
- Modular curriculum
- Assessments
- Facilitation guide
- Evaluation
- Manuscript



Postdoctoral Learning Communities

Purpose: Integrate postdoctoral teaching training on a scaffold of increased professional development

Outcomes:

- In-person weekend bootcamp
- Summer institute
- Integration with the Post-Doctoral Academy

The CIRTLL Alumni Network

Purpose: Provide CIRTLL alumni with continuing professional development and a connection to the CIRTLL Network.

Outcomes:

- [Alumni Network](#), currently 417 alumni
- Building the CIRTLL Alumni Community, Virtual Conference June 2021
- Alumni presence and contributions at CIRTLL Network meetings
- Self-sustaining governance
- Alumni career panels



Preparing NSF Graduate Research Fellows in Teaching

Purpose: Build a national online GRF Learning Community (GRFLC) focused on teaching and learning

Outcomes:

- Launched the online [GRF Learning Community](#) based on a national needs assessment survey of GRFP Fellows
- Created and offer content modules, GRF Discussion Board, Faculty Office Hours and curated resources

Connections with Disciplinary Societies

Purpose: Develop partnerships with professional societies to prepare STEM future faculty in teaching and learning

Outcomes:

- Database of offerings for teaching development by professional societies
- *CIRTLL STEM Professional Society Facilitation Manual* (in process)

Resources for National Initiatives

Purpose: Curate and disseminate CIRTLL resources

Outcomes:

- [CIRTLL Programming Archive](#)
- [CIRTLL Program Evaluation](#)

Ethical Dilemmas in the College Classroom: A Casebook for Inclusive Teaching

Introduction, Facilitation Notes, and Resources by Rosette Cirillo Cases by Rosette Cirillo and Sarah Silverman



Institution Level: Processes and Impact

Purpose: Effective and sustainable measurement of impact for diverse CIRTLL Network university programs.

Outcomes:

- Universities leverage program maps to identify the key areas of their CIRTLL programs
- Develop rigorous evaluation plans
- Share evaluation and measurement planning across the Network