









### Webinar Overview





**ATE Small Grants** Elaine Craft



**Mentor-Connect Dennis Faber** 



**Maximizing Evaluation Impact** Lori Wingate



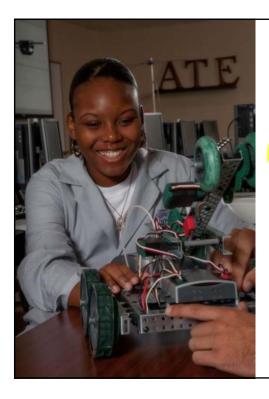
**Minimizing Evaluation Costs** Lori Wingate

SMALL Grants



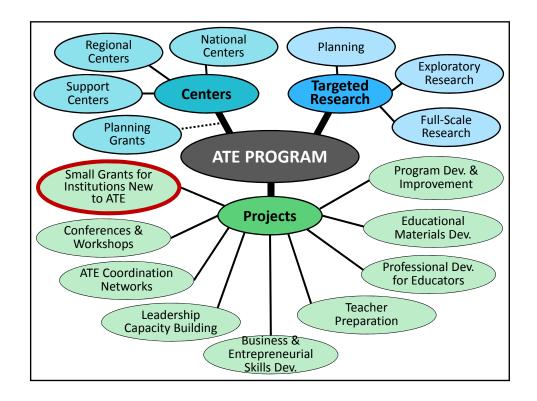
Elaine Craft





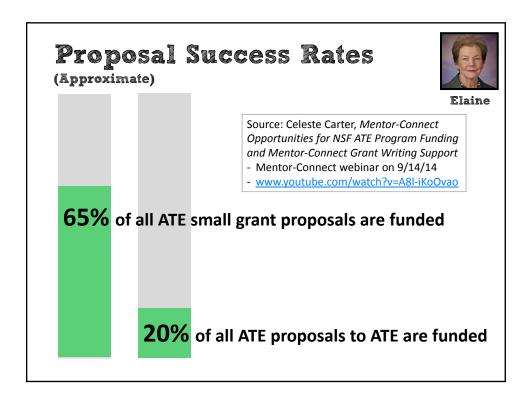
### The NSF ATE Program

focuses on strengthening technician education at the postsecondary and secondary levels for the high-technology fields that drive our nation's economy

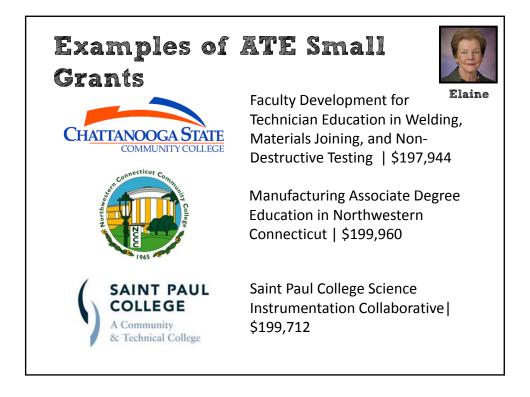


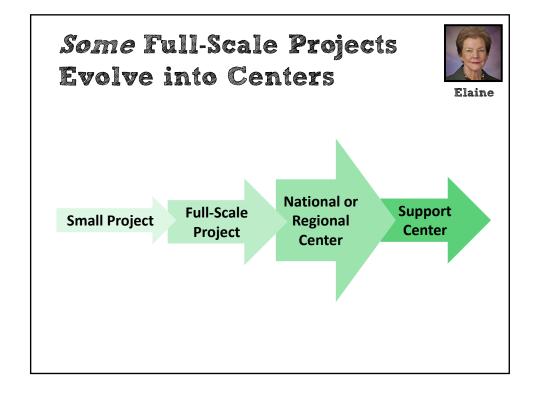














### Tips for ATE Small Grants\*



- ✓ Use resources developed by existing ATE projects and centers
- -ATECENTRAL www.atecentral.net
- ✓ Consult with ATE PIs
- ✓ Address rural technician education issues, as appropriate

\*from ATE program solicitation

# Mentor-Connect



Dennis Faber



### Mentor-Connect



Denni



provides comprehensive and interactive support for leadership development and knowledge transfer by developing and supporting potential, current and former grantees

Getting Help from	Mentor-Connect	
MENTOR CONNECT	For Mentor- Connect Mentees ONLY	For Everyone
Worksheet to guide development of project focus and rationale	$\checkmark$	
2 workshops on grant writing and leadership skills	$\checkmark$	
ATE mentor for personalized assistance with grant development and submission	$\checkmark$	
3 technical assistance webinars		$\checkmark$
Online resources (e.g., samples, checklists guidelines, tutorials, webinar recordings)	5,	✓
Help desk access (phone, email)		$\checkmark$



# Applying to Mentor-Connect

Applications available this summer

Learn more at the "Get a Mentor section" of mentor-connect.org









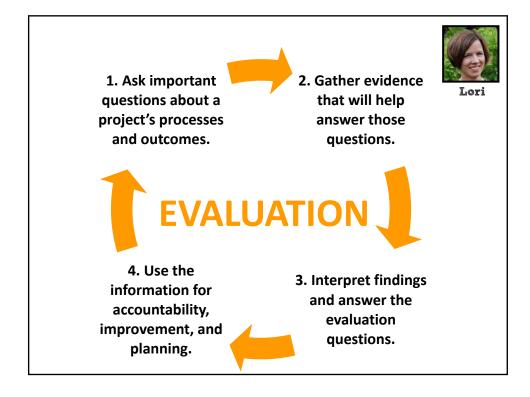
www.mentor-connect.org



# Maximizing Evaluation Impact



Lori Wingate





### **Cost-Saving Strategies**



Lori

Match the scope of the evaluation to the scope of the
project.

- Develop a tracking system to monitor project reach and participation.
- Maintain a record of key project activities and accomplishments.
- Utilize institutional research data to the fullest extent possible.
- Leverage internal and external evaluation to answer the most important questions.

### **Cost-Saving Strategies**

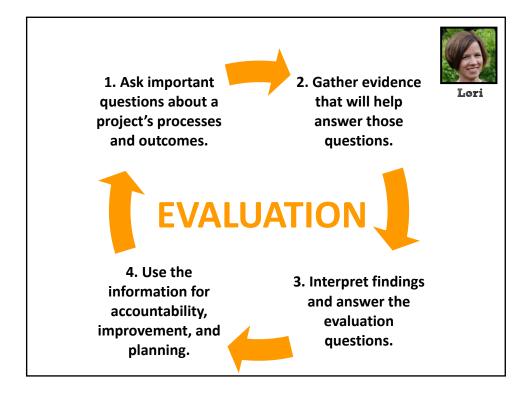


Lori

Match the scope of the evaluation to the scope of the project.







## Before Developing an Evaluation Plan...

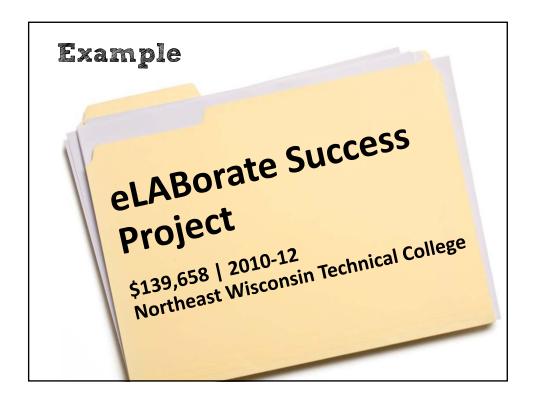


Lori

Ensure there is clarity about

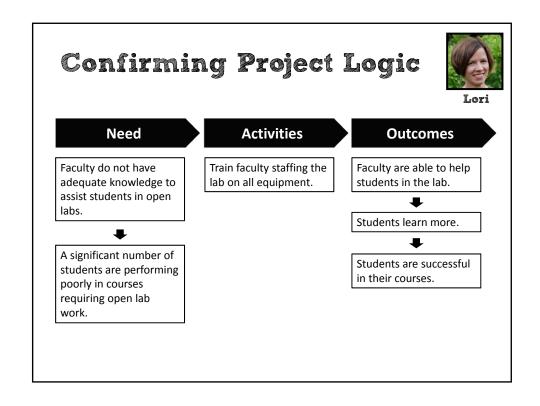
- the **need** the project is addressing
- the project's main activities
- the project's **impactees**
- the project's intended outcomes

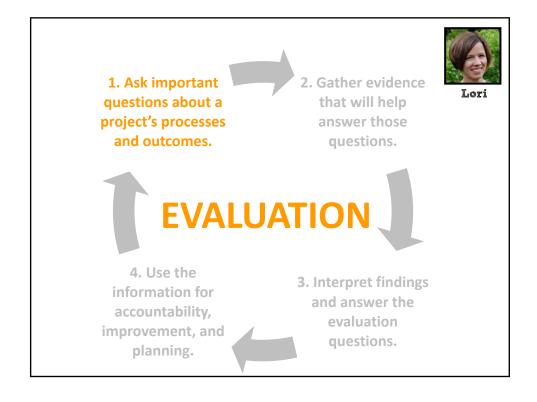




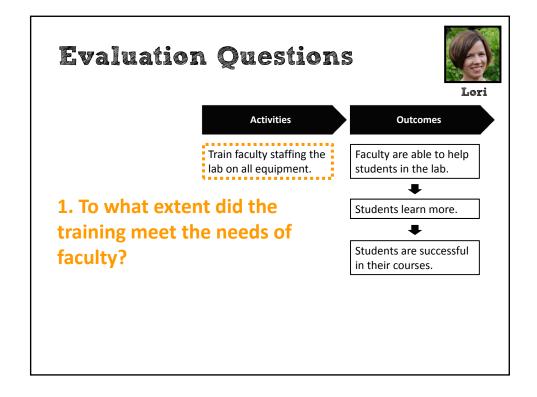
1. What is the problem or ...faculty-initiated project in response to challenges associated with the open lab format used at the need being addressed by this college. Because students use the lab on an openproject? entry/open-exit basis, the staff member on hand at **ACTIVITIES** any one time might not have the expertise needed to 2. What are the main project help the student. To address this challenge, the staff is implementing a strategy of cross training, support and activities? enhancement that provides all faculty members with enough knowledge to deal with basic content issues **PARTICIPANTS** 3. Who are the primary and questions in the shared concentrations (Electrical Engineering Technology, Electronics/Biomedical participants in the project's Technology, Electro-Mechanical Technology, and activities? Automation Engineering Technology.). ... **OUTCOMES** Goals: 4. What will be different for 1. Enhance the quality of students' learning participants because of the experience in the Manufacturing Technology project? Center by improving the instructor's ability to assist all students in select courses. 5. Who is ultimately supposed 2. Improve the quality of the labs. to benefit from this project? 3. Increase the percentage of students successfully completing courses on his/her first attempt. 6. What is expected to be different for students because of the project?

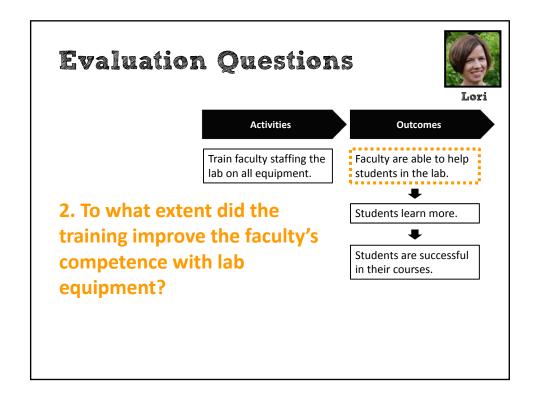




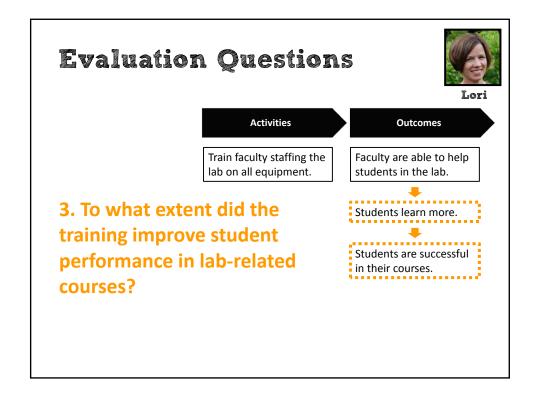


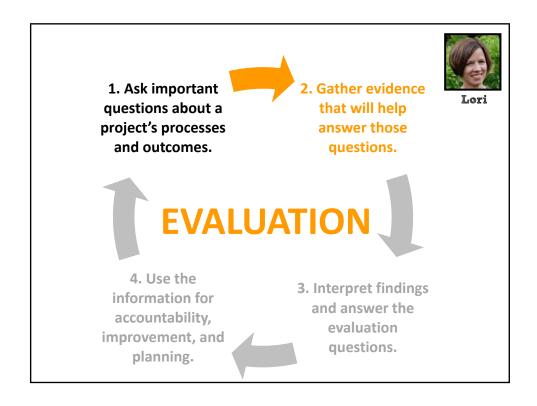






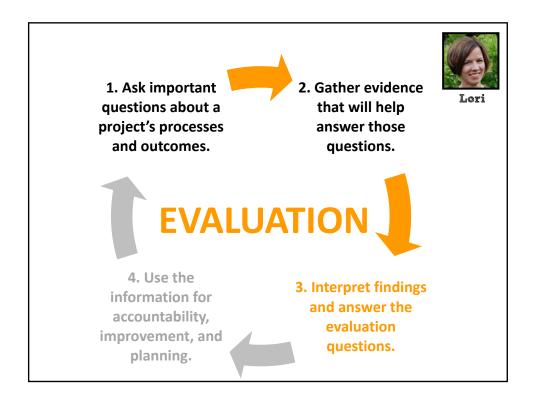






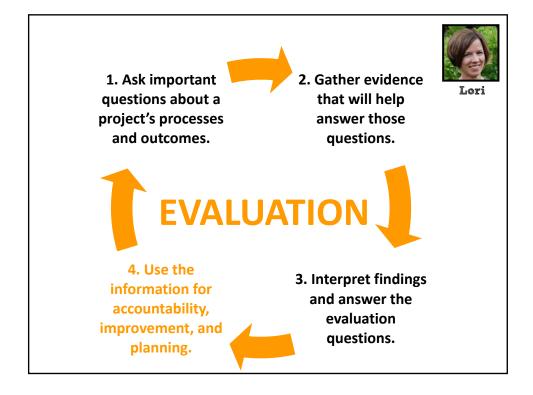


EVALUATION QUESTIONS	INDICATORS	DATA SOURCES/ METHODS
1. To what extent did the training meet the needs of participating faculty?	Faculty self-report of satisfaction, relevance, engagement	Interviews or surveys of participating faculty
	Degree to which training covered all lab equipment	Review of training content and/or PI self-report
2. To what extent did the training improve the faculty's competence with lab equipment?	Faculty self-report of learning	Interviews or surveys of participating faculty
	Percentage of faculty participating	Project records
	Participants' ability to operate lab equipment	Observation of performances tasks during training
	Student satisfaction with the help they receive in labs	Surveys or interviews of students
3. To what extent did the training improve	Student grades on assignments requiring lab work	Provided by faculty teaching courses
student performance in lab-related courses?	Student grades for lab-related courses	Provided by faculty teaching courses
	Percentage of students passing courses on first attempt	Institutional data





### Interpret Findings **EVALUATION QUESTIONS INDICATORS TARGETS** 75% of students will achieve a 3. To what extent did the Student grades on training improve assignments requiring lab grade of 'C' or better on all student performance assignments in lab-related courses? Student grades for lab-related 75% or more of students will achieve course grade of 'C' or courses better on first attempt Percentage of students Increase from 50% to at least passing classes on first 75% attempt Compare results with targets in order to answer questions (may find that targets need to be adjusted)





## Use the Information

### **Accountability**

Include results in your annual report to NSF

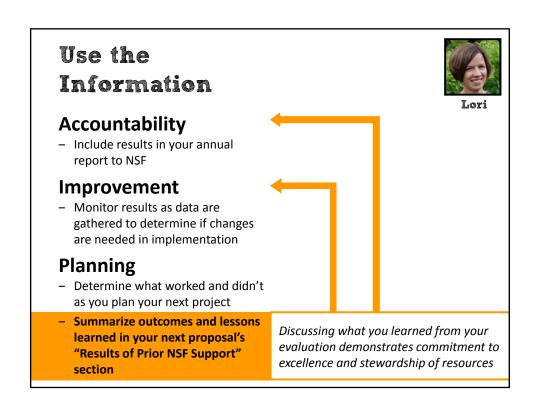
### **Improvement**

 Monitor results as data are gathered to determine if changes are needed in implementation

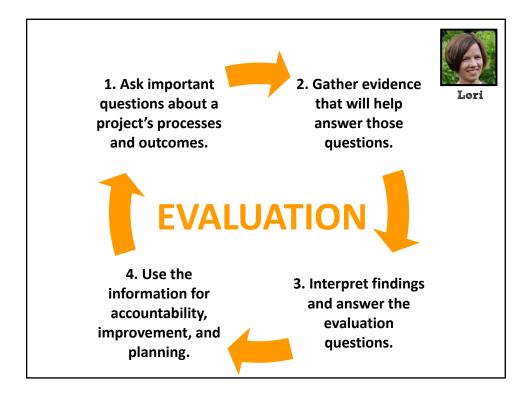
### **Planning**

- Determine what worked and didn't as you plan your next project
- Summarize outcomes and lessons learned in your next proposal's "Results of Prior NSF Support" section









### **ATE Program Goals**



Lori

- produce more qualified science and engineering technicians to meet workforce demands
- improve the technical skills and the STEM preparation of these technicians and the educators who prepare them

Your project's job is to make a contribution to these goals.

Your evaluation's job is to determine the merit, worth, and significance of your contribution.

### **Cost-saving Strategies**



Lori

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# Minimizing Evaluation Costs



Lori Wingate



### What do you think?



Lor

What are your suggestions for keeping evaluation costs down?

Answer in the chat box

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### Track Reach and Participation

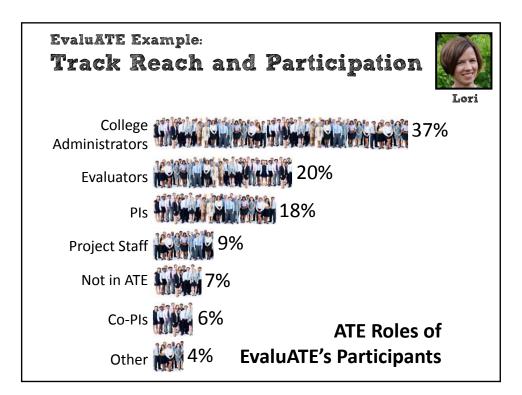


Lori

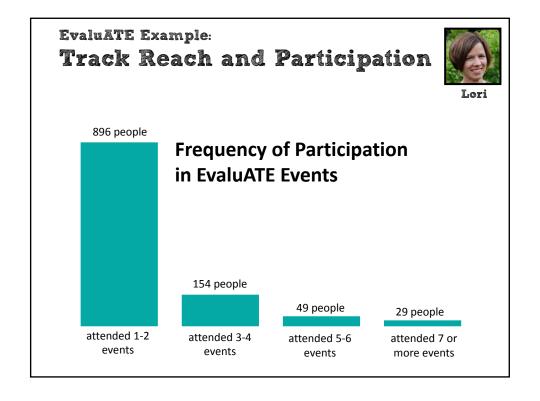
Use spreadsheet or database software to keep a log of **WHO PARTICIPATED** and their

- √ key demographics
- √ contact information
- √ involvement in the project, including dates

students - faculty - staff - partners - advisors







# Track Reach & Participation

Data on project participants are also needed for

- NSF annual reports
- ATE annual survey





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# Provides succinct documentation of your past performance and capacity for future work | Section | Control | Control



# Project Resume (or Fact Sheet) - Mission - Goals - Funding - Staffing levels - Activities/Deliverables - Personnel (including paid staff, consultants, and collaborators)

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### Institutional Data



Lori

### **Common Data Elements**

- student ID
- demographics
- program of study
- retention
- graduation

### **Uses**

- track over time
- create comparison group





See Carolyn Brennan and Russell Cannon's newsletter article and blog on using institutional data for grant writing and evaluation

—<u>bit.ly∕instdata</u>

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### **Budgeting for ATE Evaluation**



Lori



The funds to support an evaluator independent of the project or center

must be requested and the requested funds must match the scope of the proposed evaluative activities. **99** 

## What Makes an Evaluator INDEPENDENT?

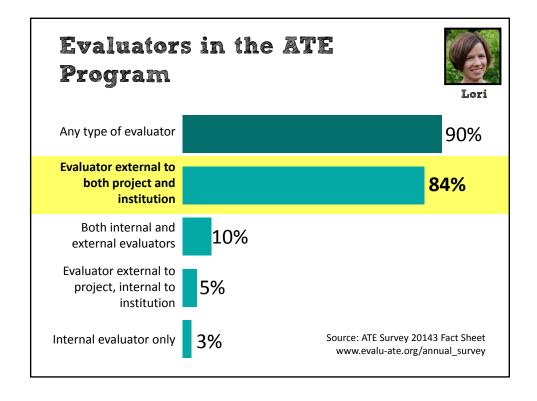


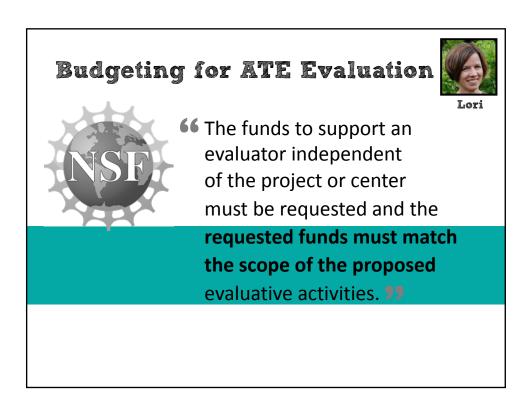
Lor

- Does not have other roles on the project
- Is not supervised by someone who works on the project
- Has no financial or intellectual stake in the project's success









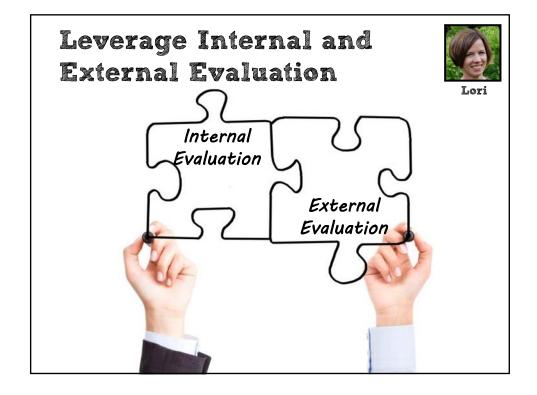














### **Cost-Saving Strategies**



Lori

These are evaluation tasks that project personnel should do!

- Develop a tracking system to monitor project reach and participation.
- Maintain a record of key project activities and accomplishments.
- Utilize institutional research data to the fullest extent possible.

# Evaluation is an Investment Evaluation is too small: Minimal investment yields minimal return. Drains resources away from project implementation. Evaluation is too big. Drains resources away from project implementation.





