

DRAFT

2006 ATE SURVEY

OVERVIEW

Thank you for taking time to complete the annual ATE program evaluation survey. The audience for this survey is all active ATE awards that have been in operation for at least 12 months. Based on feedback from program stakeholders, we have revised the overall survey. Highlights of these revisions include the following:

- To reduce the time needed to complete the survey, we have changed the requirements for completing sections 4-7 of the survey regarding materials development, professional development, program improvement, and articulation agreements.

For **PROJECTS**, we ask that you complete these sections **only** if you allocated 30% or more of your **direct** costs to an activity **in the past 12 months**.

For **CENTERS**, we ask that you complete these sections only if you allocated \$100,000 or more of your **direct** costs to an activity **in the past 12 months**.

- To further reduce the time needed to complete the survey, we have eliminated a number of open-ended questions that in the past required written responses from you. These items have either been completely removed or replaced with menu style options that now require checking a box.
- To gather more detailed information about effective ATE program practices, we have added a series of rating scales with check boxes for your responses.
- Finally, we have added a short section to assist in better understanding the roles of project leadership and staffing in ATE projects, centers, and partnerships.

The purpose of this survey is to provide evidence of the work, productivity, and quality of the ATE program through input from its projects, centers, and articulation partnerships. Findings from this survey are expected to be useful to NSF program staff in preparing their annual GPRA reports and making programmatic decisions. ATE projects, centers, and articulation partnerships can use the results of this survey to learn about the activities and findings reported by other ATE grantees and to serve their own information needs. Additional information about the ATE program evaluation can be accessed at our Website at ate.wmich.edu. In addition, the online version of the survey can be accessed through this site.

The survey will be available online February 20, 2006. The deadline for online and paper survey responses will be March 17, 2006. A complete survey schedule, including reporting dates will be communicated through our website and via email to ATE principal investigators. We will not report individual survey responses or attribute any data to a specific respondent. All data will be reported in aggregate through our website, via interactive data displays, and through formal reports to NSF.

We recommend that you review this document before completing your response so that you will have all the information you need to complete the survey. Any questions regarding this survey should be directed to:

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GENERAL INSTRUCTIONS

1. Sections 1-3 are required for all respondents. These section address grantee characteristics, organizational practices, and collaborative activities.
2. For Sections 4-7 regarding materials development, professional development, program improvement, and articulation agreements:

For **PROJECTS**, we ask that you complete these sections **only** if you allocated 30% or more of your **direct** costs to an activity **in the past 12 months**.

For **CENTERS**, we ask that you complete these sections only if you allocated \$100,000 or more of your **direct** costs to an activity **in the past 12 months**.

3. Focus your responses on the past 12 months only.

SECTION 1: GRANTEE CHARACTERISTICS

This section asks for basic information about your current ATE award. For the online version of the survey, much of this information will be shown in the response fields.

1. NSF ATE Award #: _____

2. Award Category: _____ Project (including articulation agreements)
_____ National Center
_____ Regional Center
_____ Resource Center

3. Current total award amount: \$ _____ , _____ , _____

4. Begin date for current award: _____ / _____ / _____ (MM/DD/YYYY)

5. End date for current award: _____ / _____ / _____ (MM/DD/YYYY)

6. Indicate the award numbers for any other ATE grants you have received that are associated with your current award (e.g., a planning grant or a previous award):

7. Funded Institution Category: _____ 4-Year College/University
_____ 2-Year College
_____ Association/Society
_____ Secondary School
_____ Other

Section 1: Grantee Characteristics

8. Major emphasis (Select one only.):
- Agriculture
 - Aquaculture
 - Biotechnology
 - Chemical Technology
 - Electronics, Instrumentation, Laser and Fiber Optics
 - Engineering Technology (general)
 - Environmental Technology
 - Geographic Information Systems
 - Graphics and Multimedia Technology
 - Information Technology, Telecommunications
 - Machine Tool Technology, Metrology
 - Manufacturing and Industrial Technology
 - Marine Technology
 - Mathematics
 - Multidisciplinary or Interdisciplinary (general)
 - Physics
 - Semiconductor Manufacturing
 - Transportation
 - Other. Specify: _____

9. Institution name: _____

10. Your name: _____

11. Your role: _____

12. Your address: _____

13. Phone: (_____) _____ - _____

14. E-mail address: _____ @ _____

15. Project Web site: <http://> _____

Section 1: Grantee Characteristics

16. What is the indirect cost rate used by your institution for this ATE grant? _____ %

17. For the past 12 months, estimate the proportion of your direct costs allocated to the following program activities.

Note: Percentages on these direct costs should total 100%.

_____	Materials development for national dissemination
_____	Professional development
_____	Program improvement
_____	Articulation agreements
_____	General operations
_____	Other. Specify: _____
<u>100%</u>	<u>Total Direct Costs for the Past 12 Months</u>

18. From the following list, please rank order the top three areas of emphasis for your project/center in the past 12 months. Your primary focus should be ranked #1, the second #2, and the third #3.

- _____ Increase the skills and knowledge of our students
- _____ Increase awareness among students about opportunities in STEM related careers
- _____ Increase the quality and availability of educational materials in a targeted area for our institution
- _____ Improve the quality of instruction in STEM education at our institution
- _____ Bring the curriculum up to date in terms of equipment and procedures
- _____ Improve the expertise of faculty and staff in our institution
- _____ Disseminate high quality educational materials and information to other institutions
- _____ Improve the compatibility of our curriculum with local and regional needs
- _____ Increase the expertise of faculty and staff regionally or nationally
- _____ Other. Specify: _____

Section 1: Grantee Characteristics

19. What do you consider to be the primary “market” for participants in or products of your ATE project/center?
(Select one only.)

- Local
- State
- Regional
- National

20. Which of the following best describes the industry served by your ATE project/center? (Select one only.)

- An individual industry
- One or more closely related industries
- Different, unrelated industries

21. How would you rate the relative importance of the industry or industries on which your project/center focuses to the region on which you are focused?

- Very important
- Important
- Somewhat important
- Marginally important
- Not important

22. How would you describe the current “growth mode” of the industry or industries on which your project/center is focused? (Select one only.)

- High growth
- Moderate growth
- Stable
- Moderate decline
- Significant decline

SECTION 2: ORGANIZATIONAL PRACTICES

Challenges

1. From the following list, please rank order up to three challenges your project/center has faced in the past 12 months and indicate the extent to which the challenge has been satisfactorily resolved. Your greatest challenge should be ranked #1, your next challenge #2, and the third as #3.

	Rank (1, 2, or 3)	Not Yet Resolved	Partially Resolved	Fully Resolved
Difficulty recruiting students				
Faculty/instructor turnover				
Lack of qualified instructors				
Lack of institutional administrative support/interest				
Project/center staff/personnel turnover				
Lack of financial resources				
Lack of necessary instructional resources (e.g., computers, lab space)				
Lack of support/interest from business and industry				
Changes in the industry served by your project/center				
Difficulty acquiring student job placement data				
Other. Describe: _____				

2. For what you ranked as the primary (#1) challenge you selected in question 1, please identify strategies you have used to address the challenge. *****Please be as detailed as possible in your response. Your strategies will be shared with future ATE projects/centers/partnerships in the form of lessons learned.*****

Strategies used to address: _____

Please check this box if you are also willing to discuss your strategies directly with NSF program officers

Project Leadership/Staffing

This section of questions is designed to help us learn more about ATE project leadership and staffing in ATE projects/centers.

- 3. What percentage of FTE does your ATE project/center Principal Investigator (PI) serve in this role? _____ % (fill in percent of time based on FTE)

Is the FTE based on: (Select one only.)

_____ Full year (12 months)

_____ Academic year (9 months)
- 4. For how many years has the PI for your project/center been employed by your institution? _____
- 5. Is the PI for your project/center primarily: (Select one only.)

_____ An Administrator (Skip to question 7)

_____ A Faculty Member
- 6. If a faculty member, is the PI for your project/center tenured?

_____ Yes

_____ No

_____ Not applicable
- 7. For how long has the current PI served as PI for your project/center?

_____ Months
- 8. How many changes in project leadership (the PI) have there been since the beginning of your project/center?

_____ None (0)

_____ 1

_____ 2

_____ 3

_____ More than 3
- 9. To what extent do you believe that the success of your project/center relies on a single individual or "champion" (e.g., the PI)?

_____ Strongly agree

_____ Agree

_____ Uncertain

_____ Disagree

_____ Strongly Disagree

Section 2: Organizational Practices

10. Has at least one person on your project/center team (e.g., the Principal Investigator) served as a PI on other externally funded grants prior to this current ATE support?

- Yes
- No (Skip to question 12)

11. If you responded "Yes" to question 10, what was the funding source? (Select all that apply.)

- NSF
- Other federal organization/agency
- Other state organization/agency
- A business or industry supported project
- A private foundation
- Other. Describe: _____

Workforce Needs Assessment

12. How recently did your project/center conduct a formal workforce needs assessment to guide your work? (Select one only.)

- Since receiving this ATE grant
- Prior to receiving this ATE grant (Skip to question 14)
- Never (Skip to question 15)

13. If you have conducted a workforce needs assessment since receiving this grant: Which of the following methods did you use? (Select all that apply.)

- Conduct your own survey (via telephone/mail/Internet)
- Have someone conduct a survey (via telephone/mail/Internet) specifically for your project/center
- Analyze existing data regarding workforce needs
- Conduct focus group(s) with industry/business representatives
- Formal interviews with industry/business representatives
- Feedback from an advisory panel
- Anecdotal information gathered through conversations
- Other. Describe: _____

Section 2: Organizational Practices

14. For the past 12 months, please rate the extent to which the following workforce needs assessment information was useful to your project/center:

	Not Used	Essential	Useful	Somewhat Useful	Minimally Useful	Not Useful
To secure project funding from sources other than the ATE program						
General project planning/development purposes						
General marketing purposes						
Internally to gain administrative support for the project/center						
Internally to gain support from faculty						
To recruit students						
To recruit faculty/staff						
To make a case for developing articulation agreements						
To focus materials development						
To focus course/program content						
To focus professional development activities						
To set goals and objectives						
Other. Describe: _____						

Advisory Committees

15. How much did your project/center spend for advisory committee activities during the past 12 months? (round to the nearest thousand dollars)

\$ _____ , 0 0 0

16. For the past 12 months, indicate the type(s) of advisory committee(s) used by your project/center to assist you in your work and rate the usefulness of each for your project/center. If you do not have any type of advisory committee at all, skip to question 20.

	Not Used	Essential to Our Work	Useful	Somewhat Useful	Minimally Useful	Not Useful
National committee (National Visiting Committee, National Advisory Board, etc.)						
Regional committee						
Local committee						
Other. Describe: _____						

Section 2: Organizational Practices

Please answer questions 17-19 for your advisory committee with the most broad geographic reach. For example, if you have a National Committee and a Regional Committee, respond to questions 17-19 based on the National Committee.

17. Have you received a written report from your advisory committee in the past 12 months?

- _____ Yes
 _____ No (Skip to question 19)

18. If you responded “Yes” to question 17, have you responded in writing to this report?

- _____ Yes
 _____ No

19. For the past 12 months, please report the extent to which you agree with the following statements about your advisory committee(s) and/or its advice relative to your project/center.

Our advisory committee . . .	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Lends credibility to our project/center					
Provides timely feedback from a “real world” industry/business perspective for our project/center					
Provides timely feedback to our program/center/partnership content					
Provides encouragement for our project/center					
Provides our project/center with access to industry business					
Is an advocate for our project/center					
Provides useful advice for our project/center					
Provides direct support for our project/center					
Understands challenges associated with operating in an academic environment					
Provides feasible recommendations for our project/center					

Evaluation

20. Indicate the type of evaluator used by your project/center. (Select one only.)
- _____ We do not have an evaluator (Skip to question 28)
- _____ External (i.e., hired specifically to evaluate this grant)
- _____ Internal (i.e., is a member of your staff)
- _____ We have both an external evaluator and an internal evaluator
21. How much did your project/center spend for evaluation activities during the past 12 months? (round to the nearest thousand dollars)
- \$ _____ , 0 0 0
22. Who wrote the evaluation plan that was included in the NSF proposal for your project/center? (Select the primary responsible individual.)
- _____ Internal evaluator
- _____ External evaluator
- _____ Project PI
- _____ Other. Describe: _____
23. How closely would you say this evaluation plan is being followed?
- _____ Followed precisely
- _____ Followed
- _____ Somewhat followed
- _____ Marginally followed
- _____ Not followed
24. Have you received a written report from your evaluator in the past 12 months?
- _____ Yes
- _____ No

Section 2: Organizational Practices

25. During the past 12 months, how useful has your project/center evaluation been for each of the following purposes:

	Essential	Useful	Somewhat Useful	Minimally Useful	Not Useful
<i>Project planning</i> (e.g., input at regular staff meetings based on feedback regarding project needs, processes, and outcomes)					
<i>Project improvement</i> (formative feedback to guide project implementation)					
<i>Project output</i> (determination of who has been served and in what ways)					
<i>Accountability</i> (confirmation that project work and products are being accomplished)					
<i>Project effectiveness</i> (evidence of quality of work and quality of products, improvements in student knowledge and skills, etc.)					
Other. Describe: _____					

Please answer questions 26 and 27 only if your project/center has an external evaluator.

26. During the past 12 months, how frequently has your external evaluator interacted with and exchanged project/center-related information with your staff (e.g., e-mail, teleconferences, face-to-face meetings)? (Select one only.)

- _____ Once a month or more
- _____ Once every three months
- _____ Once every six months
- _____ Once a year
- _____ Less than once a year

Section 2: Organizational Practices

27. For the past 12 months, please indicate the extent to which you agree with the following statements about your external evaluator relative to your project/center.

Our external evaluator . . .	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Understands how our project/center operates					
Lends credibility to the project/center					
Provides timely feedback of information for project/center improvement					
Provides encouragement/support/feedback to project/center staff/faculty					
Collects information that accurately reflects how the project/center is doing					
Uses a variety of methods (e.g., surveys, interviews, review of program content) to obtain data about the quality of the outcome produced by our project/center					
Provides too little time or assistance for providing requested data					
Helps us understand/interpret evaluation findings					
Helps us present evaluation findings to internal/external stakeholders					
Demands too much time from our project/center personnel					
Is flexible with respect to changes in project/center					
Provides evidence, <u>based on data</u> , about the quality of the outcomes produced by our project/center					
Provides us with advice and guidance that has been counterproductive					
Takes on an adversarial role with project/center personnel					
Takes "hands-off" stance toward our project/center activities					
Is an advocate for our project/center					
Other. Describe: _____					

NSF Program Monitoring

28. For the past 12 months, please indicate the extent to which you agree with the following statements about NSF staff and their activities relative to your project/center.

	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
My NSF project officer has an accurate understanding of my center/project					
NSF is responsive in meeting our needs					
I am satisfied with the amount of interaction between our project/center and NSF					
NSF staff encourage our efforts					
NSF staff take a "hands off" stance toward our center/project					
NSF staff provide constructive feedback and guidance					
NSF evaluative actions, including site visits, have helped improve the quality of our work					
NSF facilitates collaboration between our project/center and other ATE awards					
Participation in the annual ATE PI Conference is an important part of our project/center success					
Other. Describe: _____					

Section 3: Collaboration

The remaining questions in this section are designed to help us learn more about factors that contribute to effective collaborative relationships. ****This information will be used to inform future ATE projects and centers about developing effective collaborations.****

4. From the following list, please rank order what you consider to be the three most important factors for effective collaboration with organizations outside of your ATE project/center. The most important factor should be ranked #1, the next most important #2, and the third as #3.

- _____ Personal relationships among staff across organizations
- _____ Institutional program approval
- _____ Formal organizational agreements (e.g., sharing staff, contracts)
- _____ Cross organizational processes (e.g., regular meetings)
- _____ Track record of previous work together
- _____ Shared goals/objectives/priorities
- _____ Complementary skills and resources
- _____ Consistency in faculty and staff (retention)
- _____ Consistency in amount of institutional support received
- _____ Clarity of problem or opportunity to be addressed
- _____ Clarity of benefits from collaboration for every collaborating partner
- _____ Other. Describe: _____

5. Of the following types of organizations with which your project/center has collaborated in the past 12 months, please indicate the extent to which each is useful in helping your project/center reach its objectives. (For each type of organization, either mark "Not Used" OR if used, rate the level of usefulness.)

	Not Used	Essential	Useful	Somewhat Useful	Minimally Useful	Not Useful
Businesses/Industry groups						
Your host institution						
Other educational institutions						
Public agencies						
Other ATE awards						
Other. Specify: _____						

Section 3: Collaboration

6. For the past 12 months, which type of collaboration was the most important in helping your project/center reach its objectives? (Select one only.)

- Businesses / Industry groups
- Your host institution
- Other educational institutions
- Public agencies
- Other ATE awards
- Other organizations. Specify: _____

7. For the collaboration you selected as most important in helping in your project/center reach its objectives (in question 6), for the past 12 months please indicate the extent to which each of the following types assistance was useful. (For each type of assistance, either mark "Not Used" OR if used, rate the level of usefulness.)

	Not Used	Essential to Our Work	Useful	Somewhat Useful	Minimally Useful	Not Useful
Providing evidence/information regarding workforce need						
Developing program content (e.g., materials development & content for professional development)						
Facilitating service delivery						
Building community support						
Facilitating/providing access to decision makers						
Developing articulation agreements						
Other. Describe: _____						

8. For the collaboration you selected as most important (in question 6), did this collaborative relationship:

- Exist prior to receiving ATE funding
- Develop as a result of the ATE project/center (Skip to question 10)

9. If the relationship was *already in existence*, since receiving ATE funding has the level of activity associated with the collaboration:

- Greatly increased
- Slightly increased
- Remained stable
- Slightly decreased
- Greatly decreased

Section 3: Collaboration

10. For your most important collaborative relationship (in question 6), which of the partners benefits most?
(Select one only.)

_____ Community College (ATE project/center)

_____ Business/ Industry

_____ Community College and Business / Industry benefit equally

Section 4: MATERIALS DEVELOPMENT

ATE program guidelines indicate that materials development “activities should result in textbooks, laboratory experiments and manuals, software, CD-ROMs, videos, or other courseware that will be published for national distribution to colleges, secondary schools, or industry.”

PROJECTS: Complete this section only if you allocated 30% or more of your direct costs in the past 12 months to MATERIALS DEVELOPMENT for the purpose of national dissemination. Refer to Question #17 in Section 1 of this survey for this figure.

CENTERS: Complete this section only if you allocated \$100,000 or more of your direct costs in the past 12 months to MATERIALS DEVELOPMENT for the purpose of national dissemination.

Instruction: for items 1-4 below, the total number of materials described in each question should be the same.

1. Indicate the number of materials(s) that are in draft stage, are being field tested, or that were completed in the last 12 months, for each type of material listed below.

<u>Development Stage</u>	<u>Type of Material</u>		
	Course	Module	Other
# in Draft Stage			
# being Field Tested			
# that are Complete			

2. Indicate the number of materials that are being used locally, elsewhere, and that have been published commercially, for each type of material listed below.

<u>Development Stage</u>	<u>Type of Material</u>		
	Course	Module	Other
# in use Locally (i.e., at the institution(s) where they were developed)			
# in use Elsewhere (i.e., at other institutions)			
# that are published commercially			

3. Indicate the number of institutions, other than your institution, that are using at least one of the materials developed by your project/center. _____

Section 4: Materials Development

4. Indicate the number of materials that are under development/have been developed that are directed at each target audience, for each type of material listed below.

<u>Target Audience</u>	<u>Type of Material</u>		
	Course	Module	Other
Secondary school			
Associate/2-year college			
Baccalaureate/4-year college			
Other. Specify: _____			

5. Indicate the number of materials that are under development/have been developed using the instructional media indicated, for each type of material listed below.

<u>Instructional Media</u>	<u>Type of Material</u>		
	Course	Module	Other
Print (e.g., text books, manuals)			
Audio/Video (e.g., cassettes, video tapes, one media only)			
CD-ROMs (e.g., may include video, audio, text, or a combination)			
Online/Web-based training (e.g., Web CT, online self-paced learning, etc.)			
Mixed-media (e.g., text-books with supporting CD-ROM)			
Other _____			
Other _____			
Other _____			

Section 4: Materials Development

6. For the past 12 months, please rate the overall quality of materials developed by your project/center.

Excellent	Very Good	Average	Fair	Poor

7. Considering the rating provided in question 6, which of the following types of evidence have you used to assess the quality of materials developed by your project/center during the past 12 months?

	Always Used	Used Most of the Time	Used About Half the Time	Seldom Used	Never Used
Gather input from business & industry regarding workforce needs					
Use applicable student and industry standards or guidelines					
Verify and validate alignment of materials with industry needs					
Field test materials internally (i.e., within your project/center)					
Field test materials externally (i.e., outside of your project/ center)					
Assess student success in comparison with industry standards					
Assess improvement of student performance in the workforce					
Other. Describe: _____					

8. For each type of material listed below, indicate the total number of copies for all materials that have been distributed beyond your ATE project/center in the past 12 months.

	Type of Material		
	Course	Module	Other
Number of Copies Distributed			

9. Describe the methods used by your project/center to nationally disseminate the materials developed:

Section 5: PROFESSIONAL DEVELOPMENT

ATE Program Guidelines indicate that the “program supports projects that provide current secondary school teachers and college faculty with opportunities for continued professional growth in areas that directly impact advanced technological education.”

PROJECTS: Complete this section only if you allocated 30% or more of your direct costs in the past 12 months to providing PROFESSIONAL DEVELOPMENT. Refer to Question #17 in Section 1 of this survey for this figure.

CENTERS: Complete this section only if you allocated \$100,000 or more of your direct costs in the past 12 months to providing PROFESSIONAL DEVELOPMENT.

1. Indicate, by type, the number of professional development opportunities conducted by your project in the last 12 months, the total number of participants that attended those opportunities, and the number of participants from each education level. Do not include opportunities attended by your staff unless you also developed/delivered them.

<u>Type of Opportunity</u>	<u># of Opportunities</u>	<u># of Participants by Education Level</u>		
		Secondary	Associate	Baccalaureate
Events (e.g., conferences, workshops, institutes, college courses) that have a clear beginning and end point	_____	_____	_____	_____
Events that include pre-defined follow-up activities to support implementation	_____	_____	_____	_____
Long-term contact programs (e.g., 1-2 year mentoring, regular support from designated faculty, in-service program)	_____	_____	_____	_____
Internship (e.g., work exchange program where the participant works outside of their normal work setting)	_____	_____	_____	_____
Self-study program (e.g., self directed study, web-based training)	_____	_____	_____	_____
Other. Describe: _____	_____	_____	_____	_____

Section 5: Professional Development

2. Based on the total number of participants in Question 1 above, indicate, by type of professional development opportunity your project or center conducts, the estimated percent that, based on evidence you collected, reported each level of outcome.

<u>Type of Opportunity</u>	<u>Level of Outcome</u>		
	% indicating satisfaction and/or intent to use the information presented	% indicating that they tried and/or fully or partially implemented the new materials or ideas	% indicating that student achievement increased due to implementation
Events (e.g., conferences, workshops, institutes, college courses) that have a clear begin and end point	_____ %	_____ %	_____ %
Events that include pre-defined follow-up activities to support implementation	_____ %	_____ %	_____ %
Long-term contact programs (e.g., 1-2 year mentoring, regular support from designated faculty, in-service program)	_____ %	_____ %	_____ %
Internship (e.g., work exchange program where the participant works outside of their normal work setting)	_____ %	_____ %	_____ %
Self-study program (e.g., self-directed study, web-based training)	_____ %	_____ %	_____ %
Other. Describe: _____	_____ %	_____ %	_____ %

3. Which of the following best describes your professional development activities? (Select one only.)

_____ Our professional development efforts are designed to support our broader ATE objectives (i.e., program improvement, materials development, development of articulation agreements)

_____ Our professional development efforts are intended as stand alone activities and are not necessarily linked or integrated with other ATE activities

Section 5: Professional Development

4. Please indicate to which target audience(s) your professional development is directed and rate the importance of each. (Select all that apply and rate.)

	N/A	Very Important	Important	Somewhat Important	Marginally Important	Not Important
ATE project faculty and staff						
Faculty in my department						
Faculty at my institution						
Faculty at other institutions						
Faculty across the region or nation						
Other. Describe: _____						

5. How important are the following purposes for your project/center professional development efforts? (Select all that apply and rate.)

	N/A	Very Important	Important	Somewhat Important	Marginally Important	Not Important
Prepare faculty to teach NEW courses or programs						
Update faculty knowledge and skills about SPECIFIC technologies						
Update GENERAL TECHNOLOGY knowledge and skills						
Update SPECIFIC INSTRUCTIONAL knowledge and skills						
Update GENERAL INSTRUCTIONAL knowledge and skills						
Other. Describe: _____						

Section 5: Professional Development

6. For the past 12 months, please rate the overall quality of professional development activities conducted by your project/center.

Excellent	Very Good	Average	Fair	Poor

7. Considering the rating provided in question 6, which of the following types of evidence have you used to assess the quality of your project/center's professional development activities during the past 12 months?

	Always Used	Used Most of the Time	Used About Half the Time	Seldom Used	Never Used
End of program reaction data (e.g., satisfaction, intent to use)					
Follow-up data to determine implementation/adoption of ideas (e.g., tried the ideas, fully incorporated the materials)					
Follow-up data to determine impact of implementation on student achievement (e.g., are students performing better following adoption)					
Feedback from instructional experts regarding content & instruction of professional development activities (e.g., comparisons of professional development content & instruction against critical competitors)					
Expert panel review of professional development activities and/or products					
Other. Describe: _____					

Section 6: PROGRAM IMPROVEMENT

ATE program guidelines indicate that program improvement “activities should enhance a curriculum in multiple ways, producing a coherent sequence of classes, laboratories, and work-based educational experiences that revitalize the learning environment, course content, and experience of instruction for students preparing to be science and engineering technicians. The improved program leads students to an appropriate degree, certification, or occupational competency point and provides industry with a larger pool of skilled technicians.”

PROJECTS: Complete this section only if you allocated 30% or more of your direct costs in the past 12 months to PROGRAM IMPROVEMENT Refer to Question #17 in Section 1 of this survey for this figure.

CENTERS: Complete this section only if you allocated \$100,000 or more of your direct costs in the past 12 months to PROGRAM IMPROVEMENT.

1. Indicate the number of programs, institutions, courses, and students enrolled for each education level that your project/center targets with program improvement efforts. If your project/center provides on-the-job training / contract training for businesses indicate the number of programs, courses, companies, and students enrolled in these efforts.

		<u>Education Level</u>			On-the-job training/ contract training
		Secondary	Associate	Baccalaureate	
a.	Total number of ATE grant-funded programs developed and/or offered				
b.	Total number of institutions/ businesses where the ATE grant-funded programs are offered				
c.	Total number of unique courses offered across all ATE grant-funded programs. If a course appears in more than 1 program, count it only once				
d.	Total number of unique students who have taken at least one course in the past 12 months in one of your ATE grant-funded programs. If a student took more than one course, count them only once				

Section 6: Program Improvement

2. Based on the total number of students reported in Question 1d above, estimate the number of students in each of the following demographic categories across all of your ATE grant-funded programs at the levels indicated.

	<u>Education Level</u>			On-the-job training/ contract training
	Secondary	Associate	Baccalaureate	
a. Male				
b. Female				
c. Hispanic/Latino				
d. American Indian or Alaska Native				
e. Asian				
f. Black or African American				
g. Native Hawaiian or other Pacific Islander				
h. Multiracial				
i. White Non Hispanic/Latino				
j. Students requesting accommodation under the Americans with Disabilities Act				

3. For the past 12 months only, estimate the number of (1) applicants, (2) students who were accepted, and (3) students who were newly enrolled in your ATE grant-funded programs.

	<u>Education Level</u>		
	Secondary	Associate	Baccalaureate
Number of applicants to our programs in the past 12 months			
Number of students that were accepted to our programs in the past 12 months			
Number of students that newly enrolled in our programs in the past 12 months			

Section 6: Program Improvement

4. Estimate the number of students across all of your ATE-funded programs, in each of the following categories.

Note: In your response $a = c + d + e$

	<u>Education Level</u>			On-the-job training/ contract training
	Secondary	Associate	Baccalaureate	
a. Enrolled students				
b. Employed as technician prior to enrollment				N/A
c. Completed the specified program/course				
1. Started / continued employment as a technician				
2. Started / continued STEM education				
d. Left the program prior to completion (e.g., dropped out, changed majors, etc.)				
1. Started / continued employment as a technician				
2. Started / continued STEM education				
e. Students remaining in the program (i.e., did not complete nor leave the program entirely/drop-out)				N/A

Section 6: Program Improvement

5. For the past 12 months, please rate the overall quality of program improvement activities conducted by your project/center.

Excellent	Very Good	Average	Fair	Poor

6. Considering the rating provided in question 5, which of the following types of evidence have you used to assess the quality of your project/center's program improvement activities during the past 12 months?

	Always Used	Used Most of the Time	Used About Half the Time	Seldom Used	Never Used
Course level student satisfaction data					
End of program student satisfaction data					
Student course grades					
Data regarding student dropout rate					
Data on student or industry referrals to the program					
Post program follow up data from students (e.g., employment status, preparedness for industry)					
Post program follow up data from supervisors of students (e.g., re. skills, knowledge preparedness for industry)					
Testing of students against established business/industry work standards					
Comparison of students' knowledge and skills against other critical competitors (e.g., other colleges or military programs, or other course options)					
Feedback from instructional experts regarding content and instruction of courses and program (e.g., comparisons of program content and instruction against critical competitors)					
Expert panel review of program and/or products					
Other. Describe: _____					

Section 6: Program Improvement

7. From the following list, please rank order the three most important factors influencing the success of your project/center program improvement activities. The most important factor should be ranked #1, the next most important #2, and the third as #3. Then, for the three you select as most important, indicate the extent to which each is an inhibitor or a contributor.

<u>Rank Order the Three Most Important Factors</u> (1, 2, or 3)		Major Inhibitor	Inhibitor	Uncertain	Contributor	Major Contributor
	Student enrollment					
	Student retention through program completion					
	Institutional course approval					
	Institutional program approval					
	Faculty support & advocacy					
	Quality of instructors					
	Faculty turnover (e.g., retirements, new hires)					
	Support from college administrators					
	External funding					
	Demand by business and industry					
	Cost to maintain/update					
	National economic trends					
	Emergence of newer technologies					
	Stability of institutional funding					
	Partnership with external stakeholders					
	Ability to generate revenue to support the program					
	Other. Describe: _____					

Section 7: ARTICULATION AGREEMENTS

Articulation agreements are defined as specific agreements that allow students who complete an education program or series of courses to matriculate to a higher level of education at specified institutions. This section addresses both articulation agreements for students preparing for careers as technicians as well as teacher preparation agreements.

PROJECTS: Complete this section only if you allocated 30% or more of your direct costs in the past 12 months to developing ARTICULATION AGREEMENTS. Refer to Question #17 in Section 1 of this survey for this figure.

CENTERS: Complete this section only if you allocated \$100,000 or more of your direct costs in the past 12 months to developing ARTICULATION AGREEMENTS.

- For each category of articulation agreement, indicate the number of agreements in place, the number of institutions involved, and the total number of students that articulated in the past 12 months under the agreements indicated.

Note: Articulated means a student completed the program AND matriculated at the higher-level institution.

	<u>Category of Articulation Agreement</u>		
	<u>Technician Preparation</u>		<u>Teacher Preparation</u>
	High school to 2-year college	2-year college to 4-year college	2-year college to 4-year college
Number of articulation agreements in place			
Number of institutions involved in the agreements			
Number of students that articulated in the past 12 months			

Instruction: For the remainder of this section, SELECT 1 agreement counted in question 1 and respond to the following questions based solely on information from that agreement.

- Agreement name: _____
- Level of institutions involved: (Select one only.)
 _____ High School to 2-Year College
 _____ 2-Year College to 4-Year College
 _____ High School to 2-Year College to 4-Year College (2+2+2)
- Number of institutions involved: _____

Section 7: Articulation Agreements

5. Characteristics of the agreement: (Select all that apply)

- Some or all of the general education credits for specific courses transfer
- Some or all of the technical education credits for specific courses transfer
- Program completion allows students to matriculate at selected institutions
- Program completion allows students to matriculate at selected institutions with standing in a specific degree program

6. For the selected articulation agreement, what is the number of students that articulated (i.e., completed the program AND matriculated at the higher-level institution) in the past 12 months under this agreement? _____

7. For the selected articulation agreement, based on the number provided in the previous question, estimate of the number of students in each of the following demographic categories who articulated in the last 12 months.

<u>Number of Students</u>	
a. Male	
b. Female	
c. Hispanic/Latino	
d. American Indian or Alaska Native	
e. Asian	
f. Black or African American	
g. Native Hawaiian or other Pacific Islander	
h. Multiracial	
i. White Non Hispanic/Latino	
j. Student Requesting accommodation under the Americans with Disabilities Act	

Section 7: Articulation Agreements

8. From the following list, please rank order the three most important factors influencing the success of your project/center developing or establishing articulation agreements. The most important factor should be ranked #1, the next most important #2, and the third as #3. Then, for the three you select as most important, indicate the extent to which each is an inhibitor or a contributor.

Rank Order the Three Most Important Factors (1, 2, or 3)		Major Inhibitor	Inhibitor	Uncertain	Contributor	Major Contributor
	Student interest/demand					
	Faculty support & advocacy					
	Faculty turnover (e.g., retirements, new hires)					
	Course specifications (e.g., content, # of credit hours)					
	Quality of instructors at institution from which students will be articulating					
	Community college & university admission requirements					
	Support from college administrators					
	Institutional program approval					
	Anticipated stability of institutional funding					
	Expected ability to generate revenue					
	Expected cost to maintain/update the articulation process					
	Partnership with other educational institutions					
	External funding					
	Demand by business and industry					
	National economic trends					
	Other. Describe: _____					