

ATE PROGRAM EVALUATION SURVEY 2004

Overview

Thank you for taking time to complete the annual ATE program evaluation survey. Based on feedback from program stakeholders, we have reduced the length of the overall survey. However, we are still asking for detailed information in some sections and in some areas we are asking for greater detail. We recommend that you review this survey document before completing your response so that you will have all the information you need to complete the survey.

This survey is just one part of the ATE program evaluation being conducted by The Evaluation Center at Western Michigan University. As in the past, the purpose of this survey is to provide evidence of the work of ATE 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 improvement 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 audience for this survey is all active ATE awards that have been in operation for at least 12 months.

The survey will be available online February 16, 2004. The deadline for online and paper survey responses will be in March 19, 2004. 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.

Any questions regarding this survey should be directed to:

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General Instructions

1. Sections 1-3 are required sections. These sections address grantee characteristics, organizational practices, and collaborative activities.
2. For Sections 4-7, complete the sections that pertain to the types of work in which your project, center, or articulation partnership is significantly engaged.
3. Focus your responses on the past 12 months only.
4. If you do not know the answer to a specific question please indicate

"U" if the information is unavailable

"N" if the information is not applicable

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
 National Center of Excellence
 Regional Center for Manufacturing
 Regional Center for Information Technology
 Resource Center
 Articulation Partnership
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--continued

8. Major emphasis (check only one)

- 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. In which of the following program activities does your project/center/partnership engage? (check all that apply)

Materials development for national dissemination

Professional development

Program improvement

Technical experiences (internships, summer camps, etc.)

Laboratory development

Research

Articulation agreements

Other. Specify: _____

Section 1: Grantee Characteristics--continued

10. Institution Name. _____

11. Your Name _____

12. Your role _____

13. Your Address _____

14. Phone (____ ____) ____ ____ - ____ ____

15. Email address _____ @ _____

16. Project website http:// _____

Section 2: Organizational Practices

Complete this section based on your experiences in the past 12 months.

Challenges

1. Indicate up to three (3) challenges that your project/center/partnership has faced in the past 12 months, the strategies you have used to overcome them, and the results achieved.

Challenge 1: _____

Strategy 1: _____

Result 1: _____

Challenge 2: _____

Strategy 2: _____

Result 2: _____

Challenge 3: _____

Strategy 3: _____

Result 3: _____

Section 2: Organizational Practices--continued

Sustainability & Institutionalization

At your discretion, please respond to questions 2 & 3 OR question 4.

Sustainability is defined as the ability to continue some or all of the activities of your project/center/partnership by securing additional funding following the completion of your current ATE grant.

2. Describe your plans for sustainability of your project/center/partnership work after the completion of your current ATE grant.

3. Describe your plans for funding these activities (e.g., through new grants, institutional support, sale of products, etc.)

Institutionalization is defined as incorporating the use of the products (e.g., a course, degree program, material, or professional development workshop, etc.) produced by your project/center/partnership into your funded and/or other institutions.

4. Describe your plans for institutionalization of your products following the completion of your ATE grant.

Section 2: Organizational Practices--continued

Workforce Needs Analysis

5. How recently did your project/center/partnership conduct a workforce needs assessment to guide your work?

Never
 More than 12 months ago
 In the last 12 months

If yes, describe (1) what you did, (2) what you learned, and (3) how you used the information obtained from this assessment.

Advisory Committees

6. Indicate the type(s) of advisory committee(s) used by your project/center/partnership to assist you in your work. (check all that apply)

We do not have an advisory committee (skip to question 9)

National committee (National Visiting Committee, National Advisory Board, etc.)

Regional committee

Local committee

Other. Describe: _____

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

Yes
 No

8. How much did your project/center/partnership spend for advisory committee activities during the past 12 months?

\$ _____ , _____

Section 2: Organizational Practices--continued

9. The advice we have received from our advisory committee(s) in the past 12 months has been useful

Strongly agree
 Agree
 Uncertain
 Disagree
 Strongly disagree

10. What do you view as the most important strengths and limitations of your advisory committee(s) and/or its advice?

Strengths: _____

Limitations: _____

Evaluation

11. Indicate the type of evaluator used by your project/center/partnership. (select one)

We do not have an evaluator (skip to question 16)
 External (i.e., hired specifically to evaluate this grant)
 Internal (i.e., is a member of your staff)
 Both

12. Have you received a written report from your evaluator in the last 12 months?

Yes
 No

13. How much did your project/center/partnership spend for evaluation activities during the past 12 months?

\$ _____ , _____

Section 2: Organizational Practices--continued

14. How useful is your project's/center's/partnership's evaluation to your work?

- Essential to our work
- Useful
- Some use
- Minimally useful
- Not useful

15. Our evaluator provides evidence, based on data, about the quality of the outcomes produced by our project/center/ partnership.

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

16. What do you view as the most important strengths and limitations of your evaluator(s) and/or the evaluation?

Strengths: _____

Limitations: _____

Section 2: Organizational Practices--continued

NSF Program Monitoring

17. Indicate whether the following interactions have taken place between your NSF program officer and your project/center/partnership in the past 12 months. (check all that apply)

- Site visit by NSF to your project/center/partnership
- Site visit by you or your staff to NSF
- Telephone call
- Email contact
- Your attendance at a Principal Investigator meeting
- Written feedback to your reports
- Recommendations for improving your work

18. NSF is responsive in meeting my project's/center's/partnership's needs.

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

19. NSF evaluative actions, including site visits, have helped improve the quality of our work.

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

20. NSF facilitates collaboration between my project/center/partnership and other ATE awards.

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

21. NSF has an accurate understanding of my center/project/partnership.

- Strongly agree
- Agree
- Uncertain
- Disagree
- Strongly disagree

Section 3: Collaboration

Collaboration is defined as an ongoing relationship with another institution, business, or group that provides money and/or other support to your project, center, or partnership. Collaborators may include local businesses, other educational institutions, public agencies, industry groups, other ATE projects, centers, and partnerships, and your host institution.

- For each type of collaborator listed below, indicate the number of different organizations you collaborate with, and the number from which your project/center/partnership received substantial monetary or in-kind support in the last 12 months.

Type of Collaborator	# of Collaborators	# providing support	
		Monetary	In-Kind
Businesses / Industry groups	_____	_____	_____
Your host institution	_____	_____	_____
Other educational institutions	_____	_____	_____
Public agencies	_____	_____	_____
Other ATE awards	_____	_____	_____
Other organizations	_____	_____	_____

- For each type of collaborator listed below, check the box to indicate the purpose(s) for collaboration with your project/center/partnership.

Type of Collaborator	Collaboration Purposes					
	General Support	Materials Development	Professional Development	Program Improvement	Articulation Agreements	Other
Businesses / Industry groups	_____	_____	_____	_____	_____	_____
Your host institution	_____	_____	_____	_____	_____	_____
Other educational institutions	_____	_____	_____	_____	_____	_____
Public agencies	_____	_____	_____	_____	_____	_____
Other ATE awards	_____	_____	_____	_____	_____	_____
Other organizations	_____	_____	_____	_____	_____	_____

Section 3: Collaboration—continued

3. Indicate the total dollar value of monetary and in-kind support received by your project/center/partnership in the past 12 months from all sources other than your ATE award.

Monetary Support: \$ ____ , ____ , ____

In-Kind Support: \$ ____ , ____ , ____

4. Indicate which type of collaborator has been the most effective collaborator in helping your project/center/partnership reach its objectives. (select one)

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

5. What do you view as the most important elements for effective collaboration with organizations outside of your ATE project/center/partnership?

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.”

COMPLETE this section only if your project/center/partnership is significantly engaged in materials development for the purpose of national dissemination.

DO NOT complete this section if your materials development efforts are limited to supporting program improvement efforts within your specific project/center/partnership.

If you do not know the answer to a specific question please indicate

”U” if the information is unavailable

”N” if the information is not applicable

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.

Development Stage	Type of Material		
	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.

Usage	Type of Material		
	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	_____	_____	_____

Section 4: Materials Development--continued

3. 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.

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

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

Instructional Media	Course	Type of Material 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--continued

5. 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/partnership in the past 12 months.

	Course	Type of Material Module	Other
Number of Copies Distributed	_____	_____	_____

6. Indicate the extent to which your project/center/partnership uses the following practices for materials development.

Practice	Frequency of Use				
	Used each time	Used most of the time	Used half of the time	Seldom used	Never used
Gather input from business & industry regarding workforce needs	_____	_____	_____	_____	_____
Use applicable student and industry standards or guidelines	_____	_____	_____	_____	_____
Verify alignment of materials with workforce needs	_____	_____	_____	_____	_____
Pilot test materials	_____	_____	_____	_____	_____
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 student success in comparison with non-project or non-participating students	_____	_____	_____	_____	_____
Assess improvement of student performance in the workforce	_____	_____	_____	_____	_____

Section 4: Materials Development--continued

7. Describe the methods used by your project/center/partnership to nationally disseminate the materials developed.

Methods: _____

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

9. Indicate the degree to which your project/center/partnership is successfully achieving the goal of national distribution of developed materials.

	Highly successful	Successful	Somewhat successful	Marginally successful	Not successful
Our materials are distributed nationally	_____	_____	_____	_____	_____

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.”

COMPLETE this section if your project/center/partnership is significantly engaged in providing professional development opportunities for current and/or prospective college faculty and/or secondary school teachers.

DO NOT complete this section if you do not offer professional development opportunities for current and/or prospective educators.

If you do not know the answer to a specific question please indicate

“U” if the information is unavailable

“N” if the information is not applicable

1. Indicate, by type, the number of professional development opportunities offered 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.

Type of Opportunity	# of Opportunities	# of Participants by Education level		
		Secondary	Associate	Baccalaureate
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. _____	_____	_____	_____	_____

Section 5: Professional Development—continued

2. Indicate the extent to which your project/center/partnership collects the following types of information about your professional development activities

Type of Information	Frequency of Collection				
	Always collect	Collect most of the time	Collect about half the time	Seldom collected	Never collected
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)	_____	_____	_____	_____	_____

Section 5: Professional Development—continued

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

Type of Opportunity	Level of Outcome		
	% 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. _____	_____%	_____%	_____%

Section 5: Professional Development—continued

4. Indicate the degree to which your project/center/partnership is successfully achieving the following professional development goals

Goal	Highly successful	Successful	Somewhat successful	Marginally successful	Not successful
Enhance disciplinary skills	_____	_____	_____	_____	_____
Enhance educator teaching skills	_____	_____	_____	_____	_____
Enhance use of educational technologies to enhance instruction	_____	_____	_____	_____	_____
Enhance understanding of current technologies and practices	_____	_____	_____	_____	_____

5. Describe the evidence available to support your responses regarding the degree to which your project/center/partnership is achieving professional development goals.

Evidence: _____

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.”

COMPLETE this section if your project/center/partnership is significantly engaged in program improvement at any education level and/or provides workforce training directly for businesses in your community.

DO NOT complete this section if your work does not include program improvement as defined above.

If you do not know the answer to a specific question please indicate

“U” if the information is unavailable

“N” if the information is not applicable

1. Indicate, the number of programs, institutions, courses, and students enrolled for each education level that your project/center/partnership targets with program improvement efforts.

If your project/center/partnership provides on-the-job training / contract training for businesses indicate the number of programs, courses, companies, and students enrolled in these efforts.

	Education Level			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 <u>unique</u> 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 <u>unique</u> 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—continued

2. 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.

	Education Level		
	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.	_____	_____	_____

3. Estimate the number of students across all of your ATE-funded programs, in each of the following categories. Note: In your response $a = c + d + e$

	Education Level			On-the-job training / contract training
	Secondary	Associate	Baccalaureate	
a. Enrolled students	_____	_____	_____	_____
b. Employed as technician prior to enrollment	_____	_____	_____	NA
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)	_____	_____	_____	NA

Section 6: Program Improvement—continued

4. 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.

	Education Level			On-the-job training / contract training
	Secondary	Associate	Baccalaureate	
a. Male	_____	_____	_____	_____
b. Female	_____	_____	_____	_____
<hr/>				
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	_____	_____	_____	_____
<hr/>				
j. Students requesting accommodation under the Americans with Disabilities Act	_____	_____	_____	_____

Section 6: Program Improvement—continued

5. Indicate the degree to which your project/center/partnership is successfully achieving the following program improvement goals

	Highly successful	Successful	Somewhat successful	Marginally successful	Not successful
Our program represents a model	_____	_____	_____	_____	_____
Our program is being disseminated broadly	_____	_____	_____	_____	_____

6. Describe the evidence available to support your responses regarding the degree to which your project/center/partnership is achieving program improvement goals.

Evidence: _____

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.

COMPLETE this section if your project/center/partnership has established or is working to establish 1 or more articulation agreements.

DO NOT complete this section if your project/center does not work to establish articulation agreements.

If you do not know the answer to a specific question please indicate

"U" if the information is unavailable

"N" if the information is not applicable

- 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.

	Category of Articulation Agreement		
	Technician Preparation High School to 2-year college	Technician Preparation 2-year college to 4- year college	Teacher Preparation 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	_____	_____	_____

Section 7: Articulation Agreements—continued

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.

2. Agreement Name _____

3. Number of Institutions involved _____

4. Number of Students who articulated (i.e., completed the program AND matriculated at the higher-level institution) in the past 12 months under this agreement _____

5. Characteristics of the agreement (check 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. Describe the three most important attributes for this articulation agreement.

Attribute 1: _____

Attribute 2: _____

Attribute 3: _____

Section 7: Articulation Agreements—continued

7. For the selected articulation agreement, based on the number provided in Question 4 above, estimate of the number of students in each of the following demographic categories who articulated in the last 12 months.

	Number of Students
a. Male	_____
b. Female	_____
<hr/>	
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	_____
<hr/>	
j. Students requesting accommodation under the Americans with Disabilities Act	_____