



APPENDIX D Data Collection Worksheet



Check the Conference Domain: Biotechnology ICT Manufacturing

Other (describe) _____

To whom in the group should we address follow-up questions

Name _____ Email _____

SPECIFY THE PARTICULAR TECHNICAL PROBLEM TO SOLVE

IDENTIFY THE NEEDED MATH FOR THE PROBLEM ABOVE (What math do entry-level technicians need to be able to solve the problem. State what technicians need to do in *behavioral terms* (e.g., employees will model, calculate, estimate, evaluate, decide, analyze).

HOW WOULD THE PROBLEM BE SOLVED BY AN EMPLOYEE WHO IS ABLE TO DO THE MATH?

CLASSIFY THE NEEDED MATH BY DISCIPLINE, CONCEPT, PROCESS SKILL, AND SPECIFIC COMPETENCIES

Mathematics Discipline (please check):

Arithmetic Algebra Calculus Geometry Operations Research

Statistics and Probability Trigonometry Other (describe)

Mathematics Concepts:

Process Skills:

Competencies Needed:

At approximately what grade level(s) is this math taught? _____ **Not Typically Taught**

For the example you have provided, briefly describe how the mathematics needed is (or is not) addressed within the grades 6-14 curriculum.

Please provide any suggestions to assist teachers in conveying the needed mathematics concept(s) in context (in the math classroom, the discipline-based classroom, or both).

Briefly describe training that companies might provide to assist employees to gain these skills.