Teacher Application Form for Participating in
ITEST: NANO Project in Philadelphia Schools
The ITEST: NANO Project welcomes applications from teachers in Philadelphia Public Schools. This project is funded by the National Science Foundation (NSF), and is projected to run for three years starting from January, 2008. Before proceeding further, please make sure that you fulfill ALL the following requirements:

A. You are a science teacher in Philadelphia (this includes teachers from magnet and charter schools in Philadelphia) teaching grade 8, 9 or 10.

B. You are available during July 27 – August 14, 2009 for professional development sessions and 5 Saturday workshops during the school year.

C. You are willing to secure a letter of support from your principal supporting your participation in the ITEST: NANO Project.

If your answer to EACH of the above questions has been a “yes,” please complete the rest of the application and send the completed form through email (to leil@gse.upenn.edu) or mail (to Dr. Lei Liu, 3440 Market Street, Science Center, Room 560-10 ITEST Nano Project, University of Pennsylvania, Philadelphia, 19104).

If you have any question concerning your application, please call Dr. Lei Liu at 215-573-3441.

Name____________________ School’s Name____________________
Email _______________________________ Contact Phone Number ___________________

1. What is your gender? □ Male □ Female

2. Which best describes you? Please fill in one box only.

□ American-Indian or Native Alaskan
□ Asian or Pacific Islander
□ Black, non-Hispanic
□ Hispanic
□ White, non-Hispanic

3. Certification: Please indicate what type, level, and subject for which you are certified. If you have more than one certification, please fill out as many rows as apply.

<table>
<thead>
<tr>
<th>Type</th>
<th>Level</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provisional</td>
<td>Regular</td>
<td>Elementary</td>
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<tr>
<td>□</td>
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</table>

4. Years of teaching experience (please be specific about grade levels and subject areas)

_________________________________________________________________

_________________________________________________________________
Your Current Teaching: Please provide information on the courses that you taught during the most recent school year. Please enter your class information below.

<table>
<thead>
<tr>
<th>Name of course</th>
<th>Grade level (majority of students)</th>
<th>Number of students</th>
<th>AP or Honors</th>
<th>Minutes instruction per week</th>
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5. Over all your courses, on average, how much emphasis did you give to each of the following goals or objectives? Please check the answer of your choice.

Integrating the course curriculum with other subjects or fields of study

Teaching facts, rules, or vocabulary

Encouraging students to explore alternative explanations or methods for solving problems

Preparing students for taking standardized tests in the subject

Fully covering the course curriculum as prescribed

Understanding the theoretical concepts and ideas underlying scientific or mathematical applications

6. Please identify the proportion of your course content which comes from the sources below. The percentages should add to 100.

<table>
<thead>
<tr>
<th>Percentage</th>
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</table>
a. Textbook          |
|                     |
b. Kits              |
|                     |
c. School/district material |
|                     |
d. Teacher-adapted material |
|                     |
e. Teacher-created material |
|                     |
f. Other, please specify |
|                     |
7. The following are aspects of the use and availability of instructional technology. Please fill in ONE box per line.

<table>
<thead>
<tr>
<th></th>
<th>Disagree</th>
<th>Neutral</th>
<th>Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Instructional technologies are directly related to my teaching.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b</td>
<td>An adequate level of funding is available for my department to acquire laptop computers and other instructional technology.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c</td>
<td>An adequate level of funding is available for me to acquire laptop computers and other instructional technology.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>d</td>
<td>The instructional technologies I need are easily accessible to me through my department, Instructional Support Services, or other sources.</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>e</td>
<td>The school encourages my development and use of instructional technologies in my teaching through an incentive program.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>f</td>
<td>I am confident in my ability to use instructional technologies.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>g</td>
<td>Adequate training opportunities are available to help me use instructional technologies effectively.</td>
<td>☐</td>
<td>☐</td>
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<tr>
<td>h</td>
<td>I have sufficient time to prepare and use instructional technologies in my teaching.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>i</td>
<td>I had experience in applying instructional technology in my teaching.</td>
<td>☐</td>
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</table>

8. Do you think it is important to include nanotechnology in the science curriculum?
   □ Yes       □ No       □ I don't know

9. Would you like to add “something” about nanotechnology in your teaching in the next academic year?
   □ Yes       □ No

10. Where have you heard about nanotechnology? Fill in all boxes that apply.
    □ News media
    □ Professional publication(s)
    □ Colleagues
    □ Web site
    □ Workshop
    □ My students
    □ Other, please explain ________________________________

11. What do you consider to be your greatest strengths as a teacher? Why? Please be as specific as you can. Think about both areas of content mastery and instructional strategies when answering this question.
    ____________________________________________
    ____________________________________________
    ____________________________________________
12. What aspect of your teaching do you think need further improvement? Why? Please be as specific as you can. Think about both areas of content mastery and instructional strategies when answering this question.

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

13. What do you know about nanotechnology and bioengineering?
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

14. What would you like to learn about nanotechnology and bioengineering?
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

15. How do you think learning about nanotechnology and bioengineering will help you in guiding your students?
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

16. If you had previous experience using instructional technology in your teaching, tell us about it. What technology have you used? How did such technology help your teaching? How did the technology help your students understand the curriculum?
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

17. If you participated in professional development activities related to instructional technologies, tell us about your experiences (e.g., what activities you participated in, what you learned through the activities),
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Thank you.