



Professional Development Program in Food Science

For middle-level and high school science educators



Disease outbreaks caused by foodborne organisms frequent the news. How do these organisms cause disease? What measures are being taken by the federal government to prevent transmission of these organisms? What can an individual do to protect themselves from such disease?

The science and technology of food production, transportation, storage and preparation has changed to meet the need for safe food products. New research methodologies have enabled scientists to broaden their understanding of food science.

Emerging technologies are supportive of individual interests in safeguarding health.

Taking advantage of the new understandings, science educators have an opportunity to provide topically relevant lessons in food science for their students. To prepare teachers to do this requires a sustained effort. The Food and Drug Administration (FDA) and the National Science Teachers Association (NSTA) have joined as partners to initiate and implement a professional development program in Food Science consistent with the *National Science Education Standards*.

Selected middle-level and high school science educators will have an opportunity to be involved in a multidimensional professional development program. Specific activities are scheduled starting with a summer workshop July 17-23, 2011 and followed by a participant led workshop for colleagues during the following academic year.

The FDA/NSTA Professional Development Program in Food Science is supported by the Food and Drug Administration and implemented by the Graduate School at Washington, DC.

Professional Development Program FOOD SCIENCE

The FDA/NSTA Food Science Professional Development Program includes:

I. Workshop—A one week workshop for middle-level and high school science educators, to be held in Washington, DC July 17-23, 2011. Travel, lodging and meal expenses will be provided.

- Content updates by food science specialists
- Visits to government/industry facilities
- Presentations by government and industry leaders
- Hands-on practice with new curriculum materials
- Exchange of teaching/learning strategies

II. Curriculum Implementation—Participants will implement the FDA/NSTA *Science and Our Food Supply* supplementary curriculum during the subsequent school year.

III. Follow up Enhancement Conference—To be held in conjunction with the NSTA Area Convention in Seattle, WA, Dec 8-10, 2011. Travel, lodging and meal expenses will be provided. Activities will include:

- Curriculum and content updates
- Idea exchange between participants
- Planning for participant presented workshops

IV. Participant Presented Workshops—Each participant will be expected to present a follow up workshop in their respective school, district, or region during the 2011-2012 academic year. An honorarium and workshop materials expenses will be provided.

V. On-line support—Facilitated by the Graduate School at Washington, DC.

Participant Eligibility/Selection—Applicants must be certified middle level or high school science educators. An independent panel of judges convened by the Graduate School will select 20 middle level and 20 high school educators on the basis of submitted applications. Applicants will be notified by May 16, 2011.

APPLICATION FORM

PART A

Applicant's Name _____

Home Address _____

City _____

State _____ Zip _____

Phone _____

Fax _____

Home E-mail _____

Cell No. _____

School _____

School Address _____

City _____

State _____ Zip _____

Phone _____

Fax _____

E-mail _____

Principal's Name _____

School Type: Rural Suburban Urban

Level: Middle High School

Grades you currently teach _____

Current Position/Title (Mark all that apply):

teacher resource teacher

curriculum specialist other _____

THE INFORMATION IN MY APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

Signature of Applicant _____ Date _____

PART B

Respond to the following items. Responses should be double-spaced, on 8 1/2" x 11" paper, one side only.

I. ACADEMIC AND PROFESSIONAL EXPERIENCE (40 pts)

Summarize your professional background and experience. Do not exceed two (2) pages.

1. Current Assignment—Briefly describe the courses you teach and -other related duties.
2. Formal Education—List institution(s), date and type of degree(s), and major and minor area of study.
3. Teaching Experience—List school(s), teaching assignments; dates, and other information that provide an accurate portrayal of your teaching experience.
4. Professional Activities—Provide examples that might include research interest in service participation, membership in professional organizations, publications, etc.

II. ESSAY QUESTIONS (45 pts)

(maximum one page per question)

1. What, if any, activities/lessons related to food science do you currently use in your curriculum? What would you want to gain from this professional development, program to enhance food science Understanding by your students?
2. Describe how you would integrate food science into your curriculum. In: what ways would this align with your state/local science framework and the *National Science Education Standards*?
3. Provide a plan that you would use to introduce Your school/district colleagues to the FDA/NSTA Food Science supplementary curriculum.

III. CERTIFICATION (Required)

Attach a copy of your current certification(s).

IV. LETTER OF RECOMMENDATION (15 pts)

Include a letter from your principal/supervisor familiar with your teaching experience. The letter should indicate your principal/supervisor's willingness to support your implementation of a professional development workshop.

This application may be duplicated.

Original and two copies must be received by April 15, 2011.

All applications must be sent to the Graduate School, Professional Development in Program in Food Science (IH) 600 Maryland Avenue, SW Suite 301 Washington, DC 20024