

What Scientists and Engineers Can Do to Change the Course of Science Education

Systemic Improvement

- Lead education reform through school district, state, or national organizations.
- Advocate for strategic, research-based education redesign and improvement within school districts.
- Attend a Strategic Planning Institute

Policy

- Be involved in the discussion about appropriate standards.
- Demand that all curriculum materials have a research base.
- Help establish a vision for local and national science education goals.

Management

- Join the school board.
- Advocate for strategic, research-based education redesign and improvement within your organization and local school.
- Teach schools how to use current standards to enable learning.

Professional Development

- Train teachers through professional development.
- Be a content resource for local school districts.
- Communicate your passion for science to teachers and to the public.

Classroom Enrichment

- Receive training in research-based teaching methods in Professional Development Institutes.
- Volunteer regularly in classrooms (retirees).
- Apply educational research in your own classroom.
- Be a content resource for individual teachers.
- Model the inquiry process to students and teachers in a classroom visit.

Special Services

- Advocate for strategic, research-based education redesign and improvement to your peers.
- Write letters to the editor.
- Become informed about the research behind science education.
- Lead family science activities.



Increasing Commitment and Scope

Adapted from a diagram from the National Alliance of Business's The Fourth R