



Future of Bioscience Graduate and Postdoctoral Training

Curricular Reforms

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Challenge

- Update graduate curriculum to equip students with the skills needed for a successful biomedical career
- Curriculum: courses and supplemental educational activities provided by university over the course of training to enhance skills, knowledge and professional development
- Guiding principles:
 - Research is, and should remain, central in doctoral education
 - Educational experience is the shared responsibility of student, faculty, university, funding agencies
 - Goal: creative, independent, critical thinkers and problem solvers



Solution

Scientific	Quantitative	Professional Development



Implementation Considerations

- **Stakeholders:** students, faculty, administration, funders, employers, public
- **Delivery**
 - Away from didactic, content-based teaching toward learner-centered education
 - Modular courses, “just in time” education
 - Reapportion content-based course time
- **Assessment**
- **Barriers:** Faculty time and incentives (at institution and funder level); cost of initiatives; academic and research culture



Research Enterprise Dynamics

Funding Agency (Policy & Priorities)

Institution

Department

Research Group

Individual