



Council of Graduate Schools  
*Advocacy, Research, and Innovation*

## **The Role of the Graduate School in Enhancing Ethical Conduct and Scholarly Integrity**

Ethics Education in Scientific and Engineering Research Workshop  
National Academy of Engineering  
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## **The Council of Graduate Schools**

- § Member organization, with 500 members  
(members award 94% of U.S. Ph.Ds, over 80%  
of master's)
- § Primary representatives are graduate deans or  
equivalent
- § Advocacy, Research and Best Practices
- § Best practice model:
  - White paper>stakeholders meeting>pilot  
projects>publications>integration into CGS bi-  
annual meetings and scale-up/diffusion



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## CGS RCR Initiatives

### § Office of Research Integrity (ORI) (2004-2006)

- A) Cadre of graduate dean leaders, b) what works in training of graduate students in behavioral and biomedical sciences, c) document results
- 10 Awards x \$15k each + 25 Affiliates
- *Monograph* (2006): Principles and Framework for Start-up

### § National Science Foundation (NSF) (2006-2008)

- A) As above in science and engineering; B) ethical deliberation, interdisciplinary research, public policy arena; C) assessment
- 8 Awards x \$15k each + 20 Affiliates
- *Monograph* (2008): Best Practices (Content, Resources, Tools, Mechanisms)

### § ORI (2007-2011), “The Project for Scholarly Integrity”

- Emphasis on “comprehensive approach” to embedding scholarly integrity in graduate education, primarily in biomedical and behavioral sciences
- 5 Awards x \$50k each (RFP in April 2008; 19 proposals received; awards announced Sept. 20)
- *Publication*: “Framework & Best Practices in Institutionalization”



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## “Best Practices” in Start-up

§ Establish an Advisory Board

§ Provide Public Forums

§ Offer Two-tiered Instruction

§ Address Ethical Reasoning/Deliberation

§ Make RCR Training Mandatory

§ Develop and Conduct Multi-level Assessment

*Graduate Education for the Responsible Conduct of Research, CGS 2006*



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## **“Best Practices” in Institutionalization**

- § Identify gap between student needs and faculty perceptions and use survey data to motivate
- § Link to mandatory requirements and/or document completion of training
- § Scan available resources for gaps when developing new content in-house

*Best Practices in Graduate Education for the Responsible Conduct of Research, CGS 2008 in press*



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## **Persistent Challenges**

- § Faculty Buy-in
- § Balancing Student Needs with Quality Curricula and Costs
- § Assessment
- § Language/Nomenclature



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## **What is Needed?**

### **§ Intercultural and International Components**

- “Strategic Leaders Global Summit on Research Ethics and Scholarly Integrity” (2008)

### **§ Interdisciplinary Components**

### **§ Interaction**

- Curricular, administrative, inter-institutional

### **§ Integration and Institutionalization**



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