

## **Lessons Learned from Graduated Nanoeducation Efforts**

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The Manhattan Strategy Group (MSG) is conducting a program evaluation of the Division of Research on Learning in Formal and Informal Settings' (DRL) investment in Nanoscale Science and Engineering Education (NSEE). DRL funded eleven NSEE projects with varying research agendas, activities, outreach efforts, and evaluations. Over the two-year evaluation effort, MSG will help DRL build a program-level view of these projects/centers (topology) and document the associated goals, tools, resources, professional development materials, strategies, reports, and evaluation documents to address the following questions:

1. What has been learned through NSEE about the development of partnerships in an emerging field such as NSE? What are the strengths of such partnerships? The challenges?
  - a. Between the science and engineering researchers and science educators?
  - b. Within and across formal and informal educators and settings?
  - c. Between educational researchers and other education professionals?
2. Has a community of practice been fostered through the NSEE program, and if so, how and what are its characteristics?
3. What have we learned about the development of innovative educational resources to support awareness and understanding of emerging fields such as NSE? What are the lessons learned? What are the challenges?

To date, MSG has (a) documented the context of the DRL investment in the NSEE program and its components by project and across projects; (b) collected actionable program level data regarding the partnerships, communities of practice, and innovative educational resources of the NSEE program projects, both individually and collectively; and (c) provided documentation that can facilitate the efforts of future cutting-edge scientific projects that builds on relevant successes and lessons learned.

MSG will present the emerging lessons learned from these graduated nanoeducation efforts archival project documentation and PI and external evaluator interviews during their portion of the Assessment of Nanoeducation session chaired by Leslie Goodyear.

### **References**

[1] For further information about this project link to [www.manhattanstrategy.com](http://www.manhattanstrategy.com) or email

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