NSF Award in Engineering

Principal investigator: Stephen Howard Carr, Associate Academic Dean, McCormick School of Engineering and Applied Science

- **Project:** Collaborative Research: The Role of Intentional Self Regulation in Achievement in Engineering
- **Start Date:** September 1, 2009
- **Total Award Amount:** $50,000

**How the results of this project will benefit society:**
This engineering education research award to Tufts University and Northwestern University will study the development of professional engineering skills in undergraduate engineering students. The goal is to create a rich educational environment that fosters the development of engineering knowledge, skills and achievement both within college and in launching a successful career as an engineer. The results will increase students’ interest in engineering and will enhance the number of students who complete engineering degrees and are ready to fill engineering jobs.

**The problem the project is trying to solve:**
The goal is to better prepare students for the practice of engineering through more effective development of their professional skills.

**How this project will work:**
The techniques to be used will be drawn from design theory, cognitive science, developmental psychology, and engineering education research. This is a one-year pilot study and the results will be presented at technical conferences and published in professional journals.

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