Chicago teachers working to establish collaborative endeavors and partnerships for reforming and transforming STEM education for ELs.

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Successful Partnerships with Chicago Public Schools (CPS) To Enhance EL STEM Learning

3 Main Types

- Collaborative Relationships with Local Universities
- Corporate/Foundational Support
- Relationships with Individual Professionals Giving Back to the Community
Academia Outreach With CPS

- University of Illinois
  Watercamps: Engineers Without Borders Program/Teacher PD

- Northern Illinois University: Bernard Harris
  Summer Science Camp/ OEDG Teacher Study Abroad Program/Teacher PD

- Argonne National Laboratory: After-School STEM Club/Teacher PD
**Corporate & Foundational Support**

- **Motorola Foundation:** Engineer for a Day Program

- **James Dyson Foundation:** "Young people have an innate inventive streak. They’re not stifled by experience – they take risks and are excellent problem-solvers. They fail everyday – exactly the making of a great engineer. We’re encouraging children to use their hands and heads, make mistakes and learn."

- **Oppenheimer Family Foundation**

- [www.donorschoose.org](http://www.donorschoose.org)

- **Chicago Foundation for Education**
Partnerships with Individual Professionals
Public/Private Partnerships

(Impacts and Best Practices)

Background:
- The dialogue is primarily based on Personal experience
  - Private Individual
  - Corporate/Professional career

Observation:
- Partnership /Engagement must occur at all levels but is critical at early stages of schooling
- Success is combination of partnerships among Students, Teachers, Parents, Professionals

Personal Mission:
- [National Endowment for the Arts: a great nation deserves great art]
- RB Slogan: A leading nation requires technological leadership

Source: FORTUNE Magazine, Summer 2010
Public/Private Partnerships
(Impacts and Best Practices)

What do Partnerships bring to the Education Equation

- Exemplary ‘successful’ individuals
  Visibility to some similar backgrounds (gender, ethnicity, race, language, neighborhood, etc...)

- Mentorship- after school support (Tutoring, English teaching, ...)

- Speakers

- ‘Connections’ with professionals who share commitment/have passion for success

- Trips/visits/activities for students in a corporate environment

- Professionals who are parents and can relate/engage other parents (college preparation series, importance of technology in children’s future..)
Public/Private Partnerships
(IMPACTS AND BEST PRACTICES)

Best Practices observed (for successful result driven partnerships):

• Corporate Commitment to STEM:
  • Walk the talk approach
  • Existence of a ‘culture’ of community participation/giving back from the top
  • Volunteerism/giving back recognition

• STEM Outreach Component
  - Donations to STEM programs
    • Ease of accessibility by organizations seeking resources (capital and human)
    • Clearly defined rules for grant awards
    • Internal Volunteer Outreach component: Communication and ease of volunteerism among the professionals
  - STEM ‘driver’ within Corporate World
    • Professional(s) who are directly reachable
    • Professionals who go above and beyond
      individuals are throughout organizations and need to be ‘found’

• Networking