



# Family Workshop Series

January-February, 2019

## Program Overview

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New Jersey Institute of Technology  
Newark, New Jersey

## A Closer Look at

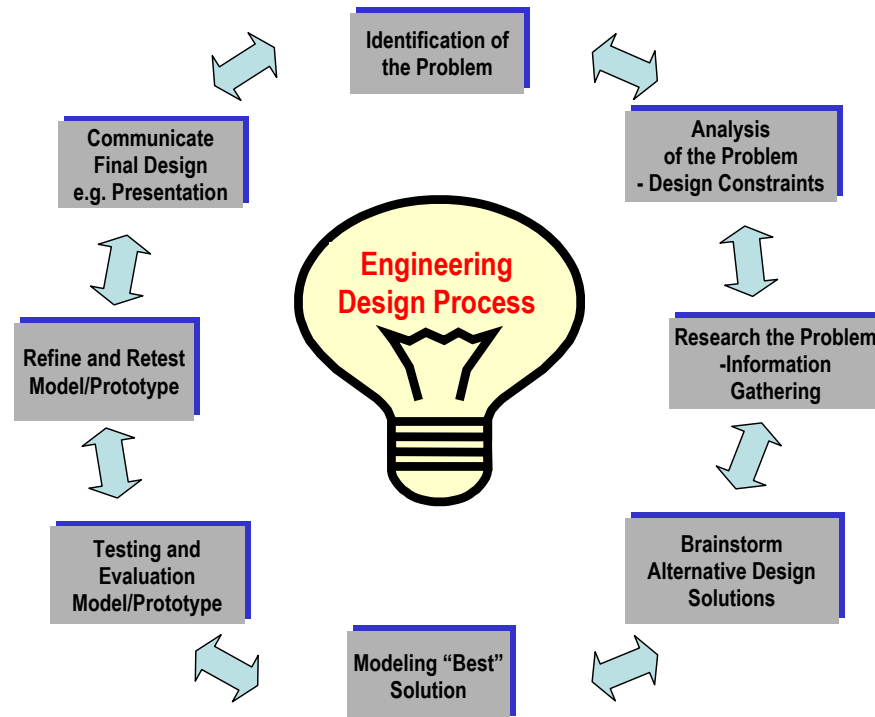


- **S**cience – last week: buoyancy, propulsion
- **T**echnology – this week’s workshop
- **E**ngineering – last week: Engineering Design; next week: helping humans
- **M**athematics – computation, area, volume (capacity), displacement, surface area, algorithms, ...

**See also** *STEM\* Ready* brochure in your red folder

# The Engineering Design Process

- Used by practicing engineers to solve real problems
- Similar to but not the same as the Scientific Method



# Center for Pre-College Programs - Overview

*Inspiring Young Minds for College Access and Success in Science, Technology, Engineering and Mathematics*

- Programs for Students

- School Year

- Academy – on-campus college courses in high school sections with TA support (NJIT transcript) – Grades 9-12
    - SAT / ACT prep – Grades 8-12
    - Options – college courses taught at area high schools by NJIT-approved high school faculty using NJIT syllabus & materials (NJIT transcript)
    - Science Olympiad Regional Competition - Grades 6-12
    - TSA Teams Competition – middle and high school
    - Panasonic Creative Design Challenge – high school

# Center for Pre-College Programs - Overview

- Programs for Students continued
  - Summer
    - Academic and recreational day camp – Students completing grades 4-11
    - Academy (see above)
  - Available to Newark students only
    - College Bound
    - TRiO
    - Upward Bound English Language Learners

# Center for Pre-College Programs - Overview

- Programs for Educators
- Programs for Families
  - STEM Family Workshop Series
  - Open Houses for Students and Families – last one this year is Saturday, March 23<sup>rd</sup>, 9 a.m. in the Campus Center Atrium

For more detailed information, visit [www.njit.edu/precollege](http://www.njit.edu/precollege)

# Virtual Campus Tour



<http://njit.college-tour.com/>

# NJ Inventors Hall of Fame



- Instruments to measure electrical current; dashboard ammeter for Harley-Davidson motorcycles (Edward Weston, NJIT founder)
- At NJIT: “New Jersey Knee” to Keurig coffee maker
- See first floor rotunda and <http://www.njinvent.org/>





# NJIT Athletics

NCAA Division 1 or Equivalent

- Baseball
  - Basketball
  - Cross Country
  - Fencing
  - Lacrosse
  - Soccer
  - Swimming & Diving
  - Tennis
  - Track & Field
  - Volleyball
- Club
- Men's Bowling – lanes here
  - Men's Ice Hockey

