Several PhD Fellowships & Research Assistantships are available at the department of Mechanical Engineering, The City College of CUNY to perform research related to

1. **Energy Harvesting from Fluid Flows by using piezoelectric materials.**
   Desirable background of the applicants:
   a) Strong background in fluids, solids and electrical fields and/or aero-elasticity;
   b) Excellent background of Mathematics;
   c) Research experience in Experimental Fluid and/or Solid Mechanics and/or Intelligence Materials;
   d) Programming experience of flow-structure interaction;
   e) Prior experience in LINUX;
   f) International students are welcomed.

2. **Shock Interaction with Materials**
   Desirable background of the applicants:
   a) Strong background in gas dynamics, solids and digital image correlation;
   b) Excellent background of Mathematics;
   c) Preferable Research experience in Experimental Fluid and/or Solid Mechanics;
   d) Programming experience of flow/structure interaction;
   e) Only US Citizens

3. **Traumatic Brain Injury**
   Desirable background of the applicants:
   a) Strong background in gas dynamics, solids and design of novel experimental setups;
   b) Excellent background of Mathematics;
   c) Preferable Research experience in Experimental Fluid and/or Solid Mechanics;
   d) Programming experience of flow/structure interaction;
   e) Knowledge of biology and anatomy of the skull
   f) International students are welcomed.

Requirements:
1. Formal admissions requirements for the CCNY program can be found here [http://www1.ccny.cuny.edu/prospective/admissions/grad/index.cfm](http://www1.ccny.cuny.edu/prospective/admissions/grad/index.cfm)
2. Candidates are kindly requested to submit the following material:
   a) A cover letter highlighting research interests and potential match for the above mentioned research areas,
   b) A copy of Curriculum Vitae,
   c) The names and contact information of 2 references,
   d) A copy of the academic transcript.

Material should be sent electronically to: andre@ccny.cuny.edu