Post-Doctoral Mechanical Engineer Researcher

January 2018

The Applied Sciences Group focuses on next generation technology – our mission is to define the future of computer hardware. Our group explores the frontiers of electronic hardware with an explicit aim towards new and exciting user experiences. We are imagining and creating the future of Microsoft’s hardware and software business. We seek creative mechanical engineers with a talent for unconventional thinking and a track record of bringing your ideas to fruition.

Within our multi-disciplinary group comprised of researchers from hardware, computer vision, manufacturing, materials science, electrical, mechanical and optics engineering the candidate must be able to understand and be adept at developing embedded hardware. The goal is to create the next generation of devices and user experiences.

We are looking for candidates who will very soon complete or have recently received a PhD in Mechanical Engineering and possess a skill set that includes the following:

- **Demonstrated experience:**
  - Mechanical Computer Aided Design (SW, Creo, etc.)
  - Finite Element Analysis (Ansys, etc.)
  - Scientific Programming Skills (MATLAB, Python, Mathematica, or similar)
  - Additive manufacturing: 3D printing
  - Physical experimentation and/or numerical modeling of mechanical systems

- **Highly valued experience in one or more of the following:**
  - Highly deformable materials, low modulus composites, soft polymers, soft actuators
  - Smart materials: sensing, logic-capable, EAPs, shape memory, liquid metals
  - Sensors (inertial, environment, biometrics, optical, medical, etc.)
  - Printed and/or flexible electronic devices
  - Photolithography and/or thin film deposition

- A strong drive to experiment, prototype, iterate and improve.
- The ability to clearly communicate what work you have done, why it was important, and what distinguishes it from others.
- Creativity generating ideas and clever solutions to problems, as well as building them.
- Interpersonal skills: ability to work collaboratively within multiple groups and cross-culture teams.

You will be free to publish, will be supported for global travel to conferences, will interface across MSFT and with vendors, will participate on product teams as a full-time employee within Microsoft. So if you want to create something new, innovative, that’s not been imagined or seen, let’s explore a fit within our organization.

Please forward your resume/CV to the following: jiholb@microsoft.com