Post-Doctoral Electrical Engineer Researcher

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 businesses. We seek creative electrical 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 soon complete or have recently completed their PhD in Electrical Engineering with a skill set that includes the following:

- **Demonstrated experience:**
  - Embedded hardware development
  - Analog and digital circuit design
  - Firmware development for microcontrollers
  - Programming skills (C++/C#, Matlab, Python)
  - CAD tools for schematic capture and circuit board layout
- **Highly valued experience in one or more of the following:**
  - Sensors (e.g.: inertial, GPS, Doppler, optical, ultra-sound, biometrics, medical)
  - Ultra-low power design
  - Display electronics and driving schemes
  - RF transceivers (e.g.: Bluetooth, ZigBee, 802.11, Nordic)
  - Printed and/or flexible electronic devices
  - Signal processing and/or control
- **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