



4205 South Miami Blvd.
Research Triangle Park, NC 27709
October 27, 2016

Dr. Alper Bozkurt
Testbed Leader, Advanced Self-power Systems of Integrated Sensors and Technologies
(ASSIST) NSF Engineering Research Center
North Carolina State University
Raleigh, NC 27695

Re: EPA Smart City Air Challenge

Dear Dr. Bozkurt,

I am writing this letter on behalf of IBM to express strong technical interest and support for your Smart City Air Challenge Proposal to Environmental Protection Agency.

IBM is a global leader in data analytics and in adding value and insight through cloud-based analytics and we are particularly interested in data related to enhancing the monitoring of ozone distribution. IBM has partnered with ASSIST Center for last two years to provide its resources to design next generation wearable sensors for internet of things. We provided several faculty awards that helped to co-mentored IBM interns and ASSIST graduate students. These efforts provided the first steps towards starting with the current system-on-chip devices and existing cloud-based algorithms to build and deploy apps on SoftLayer with BlueMix. This also included using the WICED Sense Development Kit to interact with IBM BlueMix and IBM IoT Foundation and then start connecting ASSIST custom sensors to these platforms.

We particularly support your proposal's seeking to establish a database of environmental data from wearers of ASSIST ozone band as they are mobile in typical working and living spaces during their daily life. Apps developed on SoftLayer with BlueMix and IBM Watson would provide you advanced big-data and cloud-based analytics capabilities to be able to provide enhanced visualization. This will be provided to your citizen science project for free.

In conclusion, I fully support the efforts of ASSIST Center and NC Museum of Natural Sciences as you organize citizen science efforts to build an ozone map of the Research Triangle where also where our IBM campus is also located at.

With best regards,

Sincerely,

Dr. Andy Rindos
Head - RTP Center for Advanced Studies (CAS) and WW CAS
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