

Do you want to change the world?

# Think big. Innovate

and tell us by May 1. [Apply to the Bell Labs Prize.](#)

\$100K  
1st prize

\$50K  
2nd prize

\$25K  
3rd prize

...and the opportunity of collaborating  
with the world-renowned Bell Labs

We are at a unique point in time, where our physical world is going to be transformed into a new digital existence, with everyone and everything connected and able to communicate and collaborate. In this new reality of tens of billions of devices connecting to the cloud to exchange, process, analyze and store data, the network architecture has to dramatically change to support 10x to 100x the capacity and much lower

latency; in effect the network has to seem 'infinitely fast'. Who will create the new technologies to meet the communications, contextual control, and collaboration needs of the future?

Bell Labs, the research arm of Nokia, is one of the pre-eminent global research organizations. It has a rich history of solving the great challenges facing the information and communications technology (ICT) industry and 'inventing the future'.

Bell Labs remains focused on that mission today, working on addressing challenges that require a '10x' improvement in the performance of networks.

Imagine if you had access to the resources of Bell Labs – software, hardware, brilliant collaborators, and an environment with an unparalleled history and spirit of innovation – to explore your big ideas.

#### **Are you ready to invent the future?**

Think big and tell us how you would create it! We are looking for game-changing and impactful ideas that have the potential to change the way we live, work and communicate with each other.

If you have a BIG idea with the potential to make a 10x change, and if you are interested in developing your idea with leading Bell Labs researchers, you have come to the right place.



To apply, visit the Bell Labs website at [www.bell-labs.com/prize](http://www.bell-labs.com/prize)

**NOKIA** Bell Labs

# The Bell Labs Prize

Imagine the future and we will help you invent it

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The 2016 Bell Labs Prize was awarded to Sungwon Chung, Hossein Hashemi, and Hooman Abediasl from the University of Southern California for their work on “Large-Scale Plasmonic Optical Phased Array – an architectural innovation for nanodevices”.

In 2015 we awarded the \$100,000 prize to Brandon Lucia, assistant professor at Carnegie Mellon University for his work on “OIC: The Operating System for Intermittent Computing” which introduces a new class of intelligent computer systems that use novel hardware and software techniques to operate reliably using intermittent or unreliable power.

We awarded the 2014 prize to Emmanuel Abbe, assistant professor at Princeton University, for his work on the Shannon Theory of Social Networks and beyond.

Many of the Prize candidates have engaged with collaborations with Bell Labs researchers to further their research in new directions.

Register and enter your idea in 250 words or less. If your idea is among the top 50 submissions, we will invite you to work with one of our researchers to turn your idea into a detailed, professional proposal.

Selected finalists will receive an all expenses paid trip to present their final proposals.

Three prize winners will receive an award of \$100,000 (grand prize), \$50,000 (second place) or \$25,000 (third place).

Additionally, through the process, Bell Labs may engage with other contest participants as part of our investment in and engagement with the best and brightest minds.

We are seeking 10x game-changing proposals in any field of science, technology, engineering, and mathematics – proposals that have the potential to disrupt or profoundly change the state of human knowledge or endeavor.

Our particular interest is in innovations in any domain described in ‘The Future X Network: A Bell Labs Perspective’.

The competition is open to anyone in one of the participating countries, who owns their idea and meets the eligibility requirements. The deadline to enter the contest is May 1, 2017. For more information, visit the Bell Labs Prize web site.

Please share this with your most innovative and uniquely talented students and academic colleagues so that they may become enablers of the next technological revolution with us.

## How can you create a winning proposal?

You need to submit a proposal that stands out from others in 3 dimensions:

### • 10x Innovation Potential

How is your proposal novel? What has not been done before? What is the disruptive thinking that could result in a 10x change in performance (e.g. speed, capacity, throughput, distance, latency, cost, energy efficiency or simplicity)?

### • Technical Merit

How technically sound is your proposal? On what current principles and capabilities does it depend? Would it require future advancements and innovations to succeed?

### • Feasibility

Can a proof of concept, simulation or demonstration be built in the course of the competition? What is required to do so? In order to build a commercially viable (revenue and profit-generating) solution, what more would be required?

How will human and machine communications, collaboration, control, contextual search and knowledge creation change in ten years? If you think you have the answer, let us know, and maybe you will get the chance to join the scores of researchers that have been recognized with Nobel prizes, Japan prizes, US National Medals of Science, Turing awards, and more.

The competition submission deadline is May 1, 2017!

To apply, visit the Bell Labs website at [www.bell-labs.com/prize](http://www.bell-labs.com/prize)

No purchase or payment necessary to enter the competition. Void where prohibited.

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