

# Improving Brain Research Worldwide through the Intel® Modern Code Developer Challenge

Submitted by [Roger Chandler \(Intel\)](https://software.intel.com/en-us/user/336482) (<https://software.intel.com/en-us/user/336482>) on September 22, 2015

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One of the ways we take our stewardship of [Moore's Law](http://www.intel.com/content/www/us/en/silicon-innovations/moores-law-technology.html) (<http://www.intel.com/content/www/us/en/silicon-innovations/moores-law-technology.html>) seriously at Intel is by sponsoring contests and challenges for the developer community. With the help of partners, we offer developers incentives and platforms that spur the advancement of technology, leading to new ways to make lives better and help real people.

I'm excited to share some details about the [Intel Modern Code Challenge](https://moderncodechallenge.intel.com) (<https://moderncodechallenge.intel.com>), a student-only contest for parallel programmers around the world, just launched in partnership with [CERN openlab](http://openlab.web.cern.ch/) (<http://openlab.web.cern.ch/>) and [Newcastle University](http://www.ncl.ac.uk/) (<http://www.ncl.ac.uk/>). Entrants will use modern code principles to optimize an application to make it run as fast as possible. This faster code will then be made available to the broader research community as open source.

The code being optimized is part of a CERN openlab project that has the overall aim of helping researchers identify the causes and potential treatments for neurodevelopmental diseases such as epilepsy, autism, and schizophrenia. By optimizing this [brain-simulation code](http://www.ini.uzh.ch/~amw/seco/cx3d/) (<http://www.ini.uzh.ch/~amw/seco/cx3d/>) for parallelization, students will be helping scientists analyze huge pools of data faster and more efficiently.

The prizes awarded in this challenge are really amazing. The student with the fastest optimized code wins the Grand Prize—a coveted nine-week internship at CERN openlab located at the CERN headquarters near Geneva, Switzerland. For context, thousands of students compete for only a handful of these internships every year. Additionally, three First Place winners receive a trip to Switzerland and a tour of CERN, while three Second Place winners attend the [Supercomputing Conference 2016 \(SC16\)](http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=32762) ([http://www.ieee.org/conferences\\_events/conferences/conferencedetails/index.html?Conf\\_ID=32762](http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=32762)).

The Challenge is sponsored by Intel's Software & Services Group and is open now until October 29, 2015. If you or someone you know is a student programmer with experience in programming for parallel computing or an interest in learning more, come to the [Intel Modern Code Challenge](https://moderncodechallenge.intel.com) (<https://moderncodechallenge.intel.com>) site for all the details.

Also check out how the [Intel® Modern Code Developer Community \(/moderncode\)](/moderncode) can help developers code for maximum performance on today's and tomorrow's hardware.



(<https://software.intel.com/sites/default/files/managed/55/fb/intel-win-internship-at-cern.png>)

For more complete information about compiler optimizations, see our [Optimization Notice \(/en-us/articles/optimization-notice#opt-en\)](/en-us/articles/optimization-notice#opt-en).

Categories: [Students \(/en-us/search/site/field\\_audience/students-17155/language/en\)](/en-us/search/site/field_audience/students-17155/language/en)

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