

The City College of New York



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New York City, NY

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*David Jeruzalmi
Professor of chemistry and biochemistry
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Located in the heart of Harlem in New York City, City College of New York (CCNY) is the City University of New York's (CUNY) flagship science campus and research institution. Like many small colleges, CCNY's IT infrastructure had become stressed over recent years as a result of growing scientific research and computing demands. Growing its technology platform suddenly became a top priority for CCNY and CUNY in order to expand its diverse portfolio of research, and drive new opportunities to conduct research crucial to a variety of questions important to human health, policy and culture.

Challenge

As a small city college, CCNY was challenged with additional funds to purchase a high-performance computing (HPC) cluster to support their growing research efforts.

Solution

In February 2015, CCNY applied for, and was a recipient of the 4th Annual Silicon Mechanics' Research Cluster Grant (RCG) for 2015, an award it shared with Dordt College, of Des Moines, IA. The grant provided the institution an HPC cluster with the latest Intel and NVIDIA high performance processing, and GPU technologies, which it received in September of 2015.

Result

CCNY and CUNY, now both have exclusive access to a high-performance computer cluster which is accessed by a large number of post-doctoral scholars, doctoral, masters, and undergraduate students in the course of

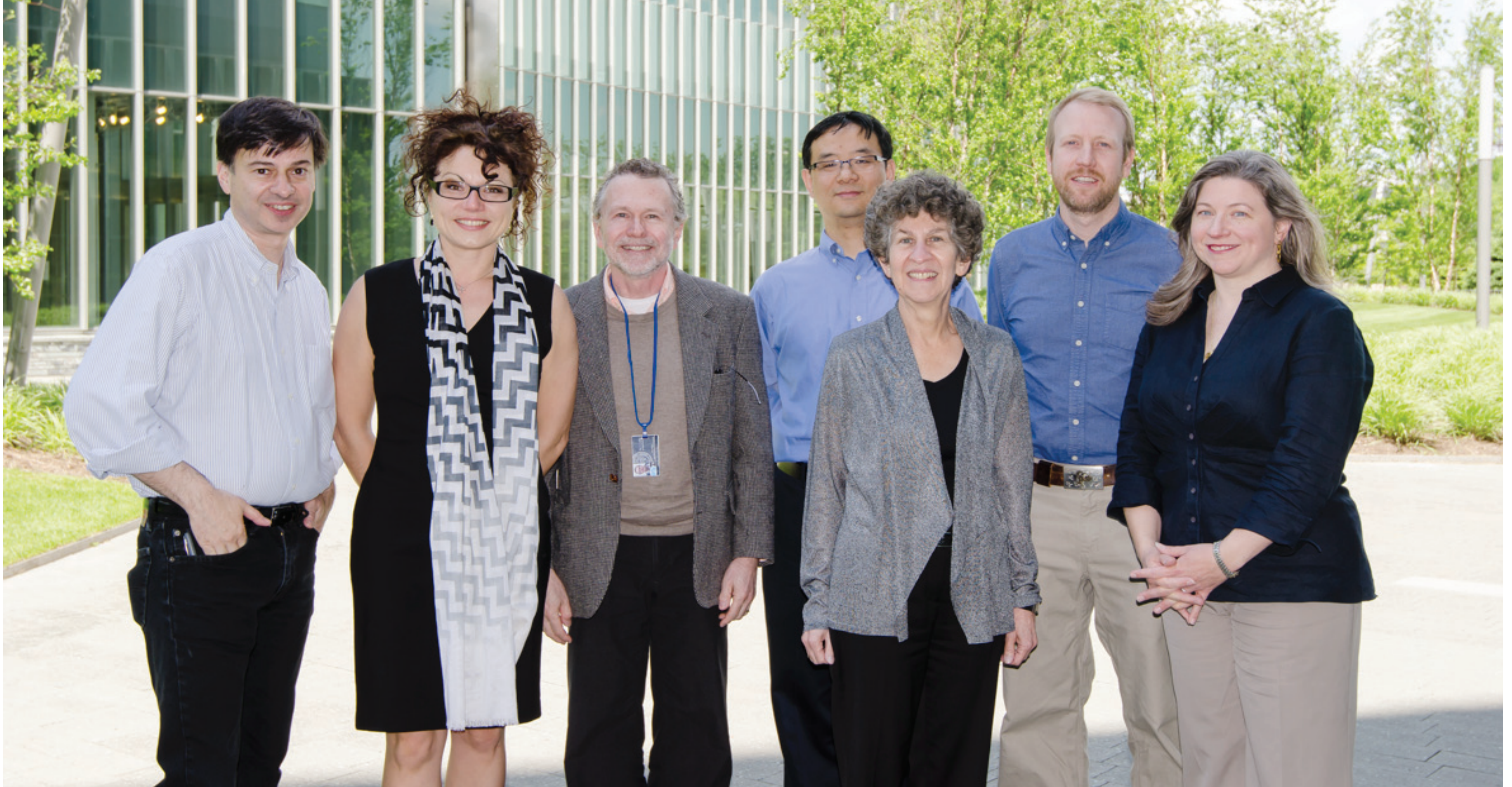
computation-based scientific inquiry in their respective areas.

The cluster deployment represents a collaborative effort among a wide range of college departments and further advances the ability to conduct cutting-edge research in biochemistry, chemistry, biology, physics, earth and atmospheric sciences, computer science, engineering, medicine, mathematics, social science, humanities and writing pedagogy.

“For many of our research programs, this computer cluster was the missing piece that could lower the barriers that kept our work from moving forward smoothly,” said David Jeruzalmi, professor of chemistry and biochemistry in CCNY's Division of Science, who wrote the grant proposal. “This award touched the research of many colleagues by bringing together researchers from across CCNY, many of whom never knew that their work could be so positively impacted by colleagues down the hall or in the next building over.”

City College of New York | 4th Annual Research Cluster Grant Recipient

Silicon Mechanics created the RCG in 2012 as a way to give back to the educational community, as obtaining needed research funding for technical advancements continues to be challenging and can limit future impact at some educational institutions. In particular, the program is helping to jumpstart research efforts where access to high-performance computing is limited, outdated or was not previously available. The RCG program also provides institutions with an opportunity to showcase how collaboration across departments and researchers can positively impact research efforts through the use of cluster technology.



David Jeruzalmi (Chemistry and Biochemistry) with other grantees, from left to right: Dorthe Eisele (Chemistry and Biochemistry), Jack Martin (Sophie Davis School of Biomedical Education), Jianting Zhang (Computer Science), Ruth Stark (Chemistry and Biochemistry), Jimmy Booth (Earth and Atmospheric Sciences) and Renata Miller (English).

The Research Cluster Grant Program is Made Possible by Contributions from:

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