

Livermore Lab
Foundation

2018 ANNUAL REPORT

“I am amazed by the success of the LLF’s initiatives to promote STEM education in partnership with the Lab. I hope that others are similarly inspired to help the LLF continue to deliver and grow its programs to benefit increasing numbers of promising STEM students each year. I believe that the potential impact of these programs is incalculable.”

—Douglas N. Modlin, Ph.D., Chief Electronics Engineer, LLNL

Happy New Year!

We are happy to share our first Annual Report that encompasses highlights from our inception in 2016 through today. With your support, we were able to launch our first projects focused on providing opportunities at LLNL to students ranging from high school to university graduates. We were pleased to center these initial efforts on Science, Technology, Engineering and Math (STEM) education because STEM education is vital to the scientific enterprise and provides rewarding career opportunities to the next generation.

Our long-term goal is to raise funds to underwrite research at LLNL to enhance human health, safety, and quality of life for current and future generations. The University of California, Office of the President, generously provides operating funds for the Livermore Lab Foundation (LLF).

This support means 100% of your donations to the LLF directly support programs which make a difference in the lives of young scientists. Your valuable contributions of over \$100,000 have made this worthwhile work possible. Thank you again for helping “Open the Door to the Future.”



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Girls Who Code

LLNL partners with the Livermore Valley Joint Unified School District to offer Girls Who Code clubs at all Livermore middle and high schools. Students learn computer programming, presentation skills, applications, and how to collaborate; plus they meet professional women role models in computing. In Fall 2017, as an outgrowth to this partnership, LLF brought 29 high school students to LLNL for a one-day hands-on workshop. Currently, the Foundation is raising funds to expand this program in 2019 to include use of the LLNL supercomputers, which is truly a rare opportunity for high school students.

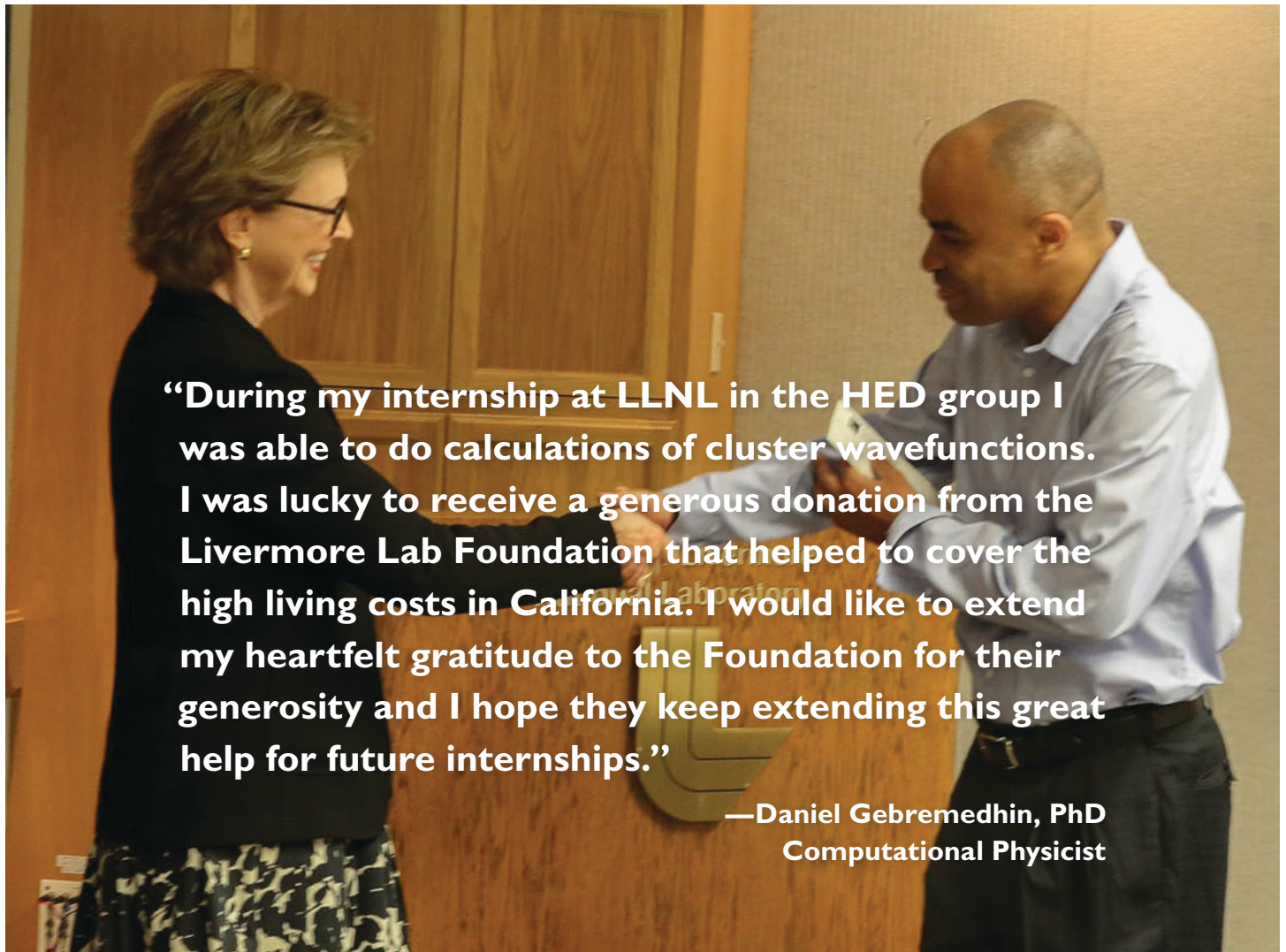


“UNCLE was founded by employees of the Livermore Lab, and we share a culture that places a high value on contribution to the larger community. Like those at the Lab, we also recognize the vital role that science and technology can play in building a better world for future generations. Our donation to the Livermore Lab Foundation aligns well with this vision.”

**—Chung Bothwell, Board Chairman
UNCLE Credit Union**

FAMU Student Support

In Summer 2018, LLF provided travel and housing support for a graduate student and a postdoc researcher from Florida A&M University (FAMU). FAMU, a historically black university has a unique high energy density (HED) physics program. FAMU scholars Jerry Clark and Daniel Gebremedhin study matter at extreme conditions – their research gives insight into properties of the atmospheres of giant planets such as Jupiter and Saturn.



“During my internship at LLNL in the HED group I was able to do calculations of cluster wavefunctions. I was lucky to receive a generous donation from the Livermore Lab Foundation that helped to cover the high living costs in California. I would like to extend my heartfelt gratitude to the Foundation for their generosity and I hope they keep extending this great help for future internships.”

**—Daniel Gebremedhin, PhD
Computational Physicist**

High School Internship Program

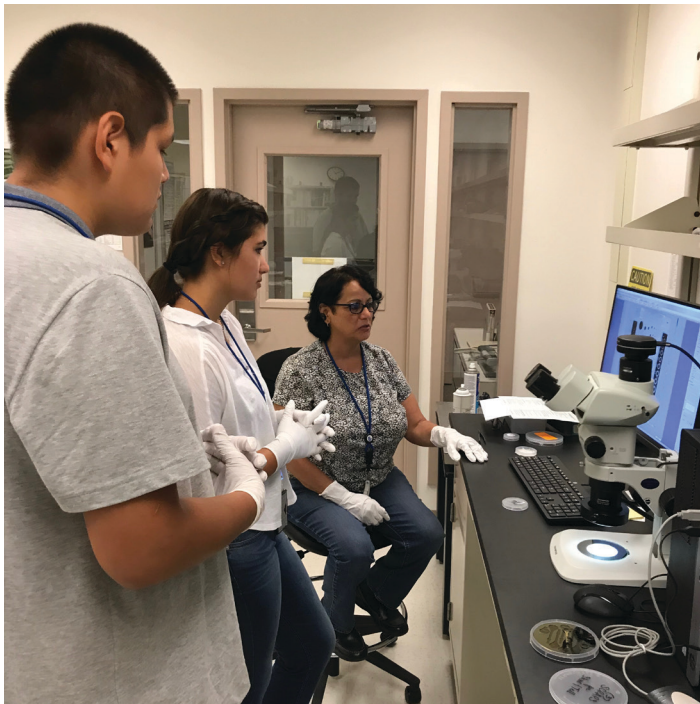
Also in Summer 2018, LLF supported a high school internship program at LLNL, with six high school students selected from Livermore's three high schools (Del Valle, Granada, and Livermore) participating in a 4-week program of project work in additive manufacturing (3D printing), bioengineering, and micro and nanotechnology, closing with a professional-level poster celebration. Each student also received a \$2,000 college scholarship award.



**SIX HIGH SCHOOL STUDENTS
FROM LIVERMORE EXPERIENCED
LLNL INTERNSHIPS IN 2018**

“I am delighted that my bioengineering project on surgical tools will contribute to real life research to cure neurological diseases.”

—Sfurti Gaudani, Livermore High



“Being able to experience what goes on inside the lab and working with scientists in their day to day lives helped me establish what I want to pursue for a career.”

—Abby Fraser, Granada High

Poster Symposium Awards

In late summer 2018, the Foundation was proud to support LLNL's annual Summer Student Poster Symposium with participation gifts for all and cash awards for the top 10% of poster presenters (*college students from across the country who interned at the Lab over the summer*).



“The LLF poster award sponsorship left the impression that this was not just a requirement. It felt like someone cared, leaving a deep impression about the importance of STEM.”

—Delaney Gray, Bioengineering Senior
Santa Clara University

Future Programs – 2019 and Beyond

We are working to continue our exciting summer STEM activities – and hopefully expand these programs to more students in the future. We also hope to create new opportunities.

As part of our mission to promote diversity in STEM, LLF has been working with LLNL and Cal State University East Bay (CSUEB) – recently named among the most diverse college campuses in the nation – to develop a yearlong internship supporting one CSUEB undergraduate in 2019-20. The intern will be announced soon and will start their internship this summer. The Foundation is excited about this new partnership with CSUEB.

On March 14, 2019, the LLF is proud to sponsor author Janet Beard as she discusses, “*The Atomic City Girls*” a book about the overlooked history of women in the Manhattan Project at the [Rae Dorough Speaker Series](#). This event promises to be interesting and informative and we hope you can join us.

Research in the future

As the Foundation matures and cultivates new relationships with donors and organizations, we turn our sights towards research efforts. One of the Foundation’s top goals is to advance scientific innovation by supporting some of the most cutting-edge LLNL research for the greater public good. In the coming months, we look forward to sharing an innovative, very timely research project that LLF will be supporting with the help of our generous donors.

Again, Happy New Year to you and your family!

We would like to thank all of our donors whose contributions, no matter their size, are helping LLF to stimulate research and career commitment to addressing problems of national importance. While we are grateful for donations of any size, we would like to acknowledge UNCLE Credit Union which has generously donated \$5,000 for a second year – these funds truly make a difference and allow us to “Open the Door to the Future.”

A handwritten signature in black ink, appearing to read "Dona L. Crawford". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Sincerely,

Dona Crawford

President

The Foundation welcomes charitable contributions from individuals, businesses, colleges and universities, and other nonprofits. You can donate on [our website](#), our [Facebook page](#), or [email us](#) to structure a donation that helps you achieve your philanthropic goals. Livermore Lab Foundation can also be selected as your beneficiary on [Amazon Smile](#). You can also mail a check c/o University of California, Office of National Laboratories at 1111 Broadway, Suite 2130 Oakland, CA 94607.

“The DOE National Laboratories play a critical role in our national R&D enterprise. The ability of LLNL to continue to serve the nation should not be taken for granted. I donate to the LLF with the hope that the Foundation will help assure the future of LLNL by supporting our future ST&E leaders in creative and innovative ways.”

—David J. Rakestraw, LLNL



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