Introduced in 1992, RAM® Mounts is a leading manufacturer of rugged mounting solutions for a wide variety of applications, including vehicles, aviation, boating, law enforcement, material handling, military, and many more. The RAM® patent-protected product line offers approximately 5,000 modular components to configure robust mounting solutions for phones, tablets, laptops, cameras, GPS trackers, two-way radios, police consoles, video surveillance systems, and aviation electronics.

In addition, RAM® is the creator of the award-winning IntelliSkin™ with GDS Technology™. IntelliSkin™ sleeves provide protection for both phones and tablets, while the universal GDS® connector allows users to charge, dock, and sync their devices. When the time comes to upgrade devices, standardized GDS® charging makes it cost-effective.

The leaders and employees of RAM® care deeply about the community that they are a part of. They believe that education is the key to a successful and bright future. With many challenges on the horizon, such as the health of marine life and our oceans, identifying sustainable energy sources, and fighting disease, RAM® founder Jeff Carnevali and his wife, ARCS member Alicia Carnevali, believe funding STEM education is a critical first step toward addressing those issues. RAM® Mounts and the Carnevali family support ARCS because it plays an important role in advancing the work of talented PhD students who will find the keys to meeting these challenges.

Backed by 300 employees, RAM® Mounts is proud to be located and manufacture its products in Seattle, Washington—in the same neighborhood where the company was started.
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NAMED FELLOWSHIPS

Named Fellowships are created by donors who understand the difference multi-year awards can make in recruiting and supporting world-class graduate students. These donors each contribute $17,500 over three years to fund and name a fellowship. A Named Fellowship also provides a donor with a unique opportunity to engage with an individual ARCS Foundation Fellow and to support his or her research.

ENDOWMENTS

Stable, sustained financial support for our graduate students is the goal of the Seattle Chapter of ARCS Foundation. By creating a Named Endowment with a gift of $100,000 or more, a donor supports new graduate student fellowships in perpetuity at the University of Washington or Washington State University.

To thanks the extraordinary generosity of the donors listed below, the Seattle Chapter has established 51 endowed Named Fellowships since 1990. Many of these generous donors have benefited from matching funds provided through the UW or WSU.

Sally Wright
Beverly Jefferson
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Lyndi Taylor
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VP/Communications &
ARCS Foundation Seattle Chapter attracts America’s best young scientists to our state’s preeminent research institutions. We advance innovative research, which in turn helps fuel our local economy. With your support, ARCS Foundation gives our Fellows the confidence and freedom to pursue the next big discovery and solve some of the most critical problems facing our planet. Thank you for joining us in changing the future!

AMY RUDOLF — President, Seattle Chapter ARCS Foundation

The University of Washington is deeply grateful to the ARCS Foundation for enabling talented Ph.D. students in science, engineering and medical research to focus on their scholarship instead of their finances through its generous fellowships. These diverse scholars are already improving lives through pioneering research—thanks to the ARCS Foundation’s commitment to graduate education, they’ll have a chance to truly change the world.

ANA MARI CAUCE — President, University of Washington

Solving global challenges and advancing the greater good require an informed vision and unyielding commitment. We are extremely fortunate to share that vision with our ARCS Foundation colleagues and benefit from their incredible generosity that supports the next generation of scientists. The impact of ARCS is immeasurable, as is our gratitude.

KIRK H. SCHULZ — President, Washington State University
ARCS Foundation Seattle Chapter Fellowships give our universities a critical competitive edge in recruiting top graduate students. These highly capable individuals are catalysts who help build vibrant academic communities where teamwork, visionary insights, and creativity flourish. The contributions of ARCS Foundation alumni employed in high profile organizations around the state and country testify to the vitality and value of ARCS Foundation’s mission.

Seattle Chapter success by the numbers:

- Founded in 1978, is one of 15 ARCS chapters nationwide
- To date has supported over 1,200 fellows with awards totaling over $17.2 million
- This year supports 157 fellows with awards in excess of $920,000
- Currently there are 51 ARCS Foundation Seattle Named Endowments with over $10.5M in assets supporting fellowships in perpetuity
- Funds 36 departments at UW and 12 at WSU
- Third largest annual foundation donor to the UW
- Honored as a Presidential Laureate by UW
- Awarded Silver Laureate Status by WSU

ARCS Foundation supports the power of scientific and technological education in driving positive change in our world. Nationwide, ARCS Foundation, Inc. partners with 51 premier US universities to provide financial awards to academically outstanding US citizens pursuing degrees in science, technology, engineering and mathematics (STEM). Our dedicated and hardworking members are committed to fostering the success of these truly amazing individuals, our next generation of scientific leaders and innovators.
ARCS Foundation Fellowships provide unrestricted funding that allows students to think less about finances and more about their education and research. By supporting ARCS Foundation you impact students, their research, the universities, and our scientific future.

ARCS FOUNDATION SEATTLE CHAPTER NAMED FELLOWSHIP  $17,500
Funds one three-year Named Fellowship.

ARCS FOUNDATION SEATTLE ENDOWMENT  $100,000
Funds one Named Endowment in perpetuity. Currently matching opportunities are available through the generosity of University of Washington and Washington State University.

ARCS FOUNDATION SEATTLE CHAPTER CORPORATE SPONSORSHIPS  $2,500 or more
We are fortunate to have great partnerships with local businesses and organizations. Various sponsorship levels and recognition opportunities are available.

ARCS FOUNDATION SEATTLE PLANNED GIVING
Consider the opportunity to leave a legacy. For information on how to remember us in your wills and trusts, please contact us at information@seattlearcsfoundation.org.

In addition to the above named funding opportunities, each year the Seattle Chapter’s collective funding supports a number of fellowships at $17,500 each. Your gift in any amount goes towards advancing our mission.

To learn more about making a gift, please contact us at:
Seattle Chapter
ARCS Foundation
Private Mailbox 429
4616 25th Avenue NE
Seattle, WA 98105
E-mail: information@seattlearcsfoundation.org
Website: www.seattlearcsfoundation.org

Philanthropy is central to Carlyn Steiner’s life. “My family was charitable, and I grew up wanting to support people and causes,” she says. “Giving is part of my DNA.”

That’s why Carlyn created an ARCS Foundation gift—a University of Washington endowment to fund exceptional graduate scholars in science now, and for years to come. It is also the reason she has served in so many roles since joining ARCS in 1990. Her leadership positions have included Seattle Chapter President and membership on both the board and executive committee. She also has held several positions on ARCS Foundation National board, and is currently one of three chairs of the 40th anniversary committee for the Seattle Chapter.

Clearly, the mission of ARCS Foundation has inspired Carlyn to contribute her resources, time, skills, and experience. “I like the people, I like the mission, and I like learning,” she says. “That’s ARCS, and that’s the paradigm for me.”

ARCS Foundation is a non-profit organization incorporated in 1978. Tax ID 91-1042292.
"ARCS Fellowships continue to play a crucial role in our recruitment of top candidates because they are our best tools for recruiting gifted mathematicians to the UW Mathematics PhD program."

— John Palmieri
Professor and Graduate Program Coordinator
Department of Mathematics, University of Washington
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Rooted in the practice of an interdisciplinary approach to research, the Quantitative Ecology and Resource Management (QERM) PhD Program at the University of Washington provides a rigorous yet flexible curriculum. Students train in the application of statistical, mathematical, and decision sciences to terrestrial and aquatic ecology, natural resource management, biometrics, and mathematical biology, while pushing boundaries to create new knowledge.

Reflecting on its historical influence, uniqueness, and collegiality, Mark Kot, associate professor of applied mathematics, states, “For several decades now, QERM has been the focal point for quantitative studies of the environment and of natural resource systems on a global scale.”

Since 1990, QERM has continued to recruit, retain, and graduate a select cohort of scholars with high mathematical aptitudes who conduct pioneering research addressing climate change, fire, drought, and sustainable fisheries. Highly qualified in viewing environmental science through quantitative perspectives, these talented PhD scholars have established meaningful careers in academia, government agencies, and consulting firms. Thus, QERM graduates are helping to change our awareness and understanding of the scarcity and limitations of earth’s natural resources.
“As a graduate student, I can’t give back with money, but I can give back with time,” says second-year Dorothy Lewis Simpson ARCS Endowment Fellow Kelsey Maass, “and ARCS helps make that possible.”

Kelsey played a key role in the launch of the UW Women’s Center’s Girls Who Code club, which aims to help close the gender gap in technology. She has been an active volunteer ever since, and was even able to lead a summer immersion program, thanks in part to her ARCS Fellowship.

Of course, the bulk of her time is spent on her studies. Kelsey, pursuing her PhD in applied mathematics, is working with a professor of applied mathematics and a professor of radiation oncology to develop new tools and algorithms for optimization. She is now finishing a paper that uses a mathematical framework to calculate optimal protocols for cancer patients.

Determining the course of treatment for cancer is often a complicated process that can involve conflicting expert opinions and result in worry and confusion on the part of the patient. Fully realized, Kelsey’s work could help doctors construct rigorously optimized mathematical protocols tailored to each individual—a boon for physicians as well as patients and their families.

“We’re learning that the same big data tools that guide artificial intelligence, such as self-driving cars, can be applied to medicine,” Kelsey says. “It’s a very exciting time.”
“Who doesn’t want to support the incredible work of these Fellows?” asks Karyl Alvord. She and her husband, Elias, currently fund two ARCS Fellowships: one for Benjamin Lee, a first-year entomology PhD student at Washington State University (WSU), and the other for Chris Arakawa, a fifth-year MD/PhD student studying bioengineering at the University of Washington (UW).

“I’m amazed by these brilliant, innovative scholars,” Karyl continues. “Chris’ work in cardiac tissue engineering has tremendous potential to save lives, and Benjamin’s application of entomology as it relates to farming could someday mean that subsistence farmers in developing countries are able to feed not only themselves, but others in the immediate area as well.”

Benjamin and Chris are just as enthusiastic when describing their appreciation of the Alvords. “It means so much. They are investing in me and honestly seem happy to be doing it,” says Benjamin. “It makes a Fellowship feel human; the investment is personal as well as financial.” Adds Chris, “Knowing that someone is saying ‘I believe in you’ makes such a difference.”

The confidence that Karyl and Elias have in their Fellows is exceeded only by their confidence in ARCS and its mission. “You never know where the next breakthrough might come from,” Karyl says. “And ARCS is helping to cultivate that breakthrough by supporting some of the brightest minds in critical fields. Supporting ARCS isn’t just philanthropy—it’s investing in the future.”
FELLOW Lori Bedient, Veterinary Microbiology and Pathology, WSU
FELLOW Ryan Oliveira, Veterinary Science, WSU

“ARCS Fellowships give student scientists unrestricted financial assistance to support their endeavors in any capacity they choose, and this is unique. These scholars return excellence through their efforts to accomplish meaningful research for a better world,” says Dr. Trish Rogers. She and her husband, Jim, currently fund ARCS Fellowships for Dr. Ryan Oliveira and Dr. Lori Bedient, both in the combined Pathology/PhD program at Washington State University (WSU).

Ryan and Lori credit their ARCS Fellowships with helping to tip the scales in favor of selecting WSU over other top universities. “I couldn’t afford to do a PhD here without it,” says Ryan. Adds Lori, who practiced as a veterinarian for several years before coming to WSU with her young family, “It really helped with the transition from being a practicing vet to being a full-time graduate student.”

A longtime veterinarian herself, Trish has a deep understanding of the work Ryan and Lori are doing—a fact both scholars appreciate. “It’s nice to have someone to talk to,” says Ryan. “Jim and Trish are like extended family, and it’s great to get their perspective.” Lori echoes that sentiment, saying, “We have a lot of common ground, which helps me feel a strong connection to them. Knowing they are funding my ARCS Fellowship increases my desire to do good work—they really do care about it.”
# FIRST-YEAR FELLOWS

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“Support from ARCS Foundation enabled me to get four exceptional students in my program over the last ten years. Two of them cofounded a spinoff from my lab called Phytelligence. Another ARCS Fellow used the support to conduct an internship at a major genomics company in Spain. I am very grateful for the association WSU has with ARCS Foundation. It has benefitted the Fellowship recipients and has enhanced the impact of my research program.”

— Amit Dhingra
Associate Scientist/Associate Professor,
College of Agricultural, Human, and Natural Resource Sciences, Department of Horticulture,
Washington State University
The Department of Chemistry at Washington State University delivers faculty-led basic and applied research that provides transformational aid to Washington and the nation in commerce, national security, human health, environmental and natural resources, and more. This discovery-based training for our next generation of chemists ensures continued innovation and workforce capacity for a technology-based society. The department has three multidisciplinary areas of focus: Energy and the Environment, Materials, and Biological Systems.

Chemistry of Energy and the Environment includes the nuclear chemistry group: faculty members have strong partnerships with the Pacific Northwest National Laboratory. WSU is one of the very few universities to have a nuclear reactor and has one of the best PhD radiochemistry programs in the U.S.

Chemistry of Materials includes physical chemistry and inorganic chemistry, and is the focus of the interdisciplinary Materials Science and Engineering Program (MSEP). Its faculty carries out research on catalyses, nanomaterials, surface science, and materials for the energy industry.

Chemistry of Biological Systems faculty collaborates with faculty at the WSU School of Veterinary Medicine and the Elson S. Floyd College of Medical Sciences. Their multidisciplinary research encompasses synthetic organic and biochemistry, studying reactivity and chemical techniques in living systems.

Department faculty trains nearly 100 doctoral students. Seven faculty members are recognized as fellows of the American Association for the Advancement of Science, seven are fellows of the American Chemical Society, two are fellows of the American Physical Society, and one is a fellow of the American Vacuum Society.
"I thought I could make a difference." So says Jonathan Eagle, describing what led him to study plant pathology.

It’s a sentiment that can be applied to other areas of Jonathan’s life as well. He’s a veteran of the US Air Force, in which he served as a crew chief on fighter planes and lived the Air Force’s core values of “Integrity first, service before self, and excellence in all we do.”

That experience was ideal preparation for Jonathan in his current work. As a second-year ARCS Fellow, he’s looking at stripe rust, a wheat disease that reduces grain quality and yields. “It’s one of the most economically important wheat pathogens in the Pacific Northwest,” he says.

Jonathan is using genetic markers to map wheat genes involved in stripe rust resistance. “There are multiple types of resistance genes,” he comments. “Some are better than others, and stripe rust is evolving quickly.” The goal? To confidently identify genetic markers that cosegregate with important genes involved in stripe rust resistance. Plant breeders can then use those markers to stack multiple favorable genes in one cultivar, creating a robust, rust-resistant product.

Jonathan credits ARCS not only with aiding him in his decision to study at Washington State University, but also with helping him do his best work. “I appreciate the mentorship,” he says. “People who have gone before you and been successful—that’s who you want to be surrounded by.”
The ARCS Fellowship was a determining factor in my decision to attend WSU; it has allowed me to spend my energy on my research rather than having to worry about finances. Additionally, ARCS Foundation has enriched my graduate experience immeasurably through the opportunity to interact with donors and other students doing exciting research in various disciplines.

UW School of Pharmacy is one of a few academic institutions in the country offering a dual PharmD/PhD degree. The prestige and duality of the program require focus, time, and confidence. Being offered an ARCS Foundation Fellowship is a continuous vote of confidence in my abilities as a scientist, for which I will be eternally grateful.

ARCS Foundation has been influential in each step of my graduate career—first, in making the decision to come to WSU, and continually thereafter by allowing me to connect with influential people in a broad range of disciplines. I am honored to be recognized by ARCS for both my past achievements and my future potential in the scientific community.
Dr. Jon Oatley’s professional life has come full circle in a remarkable way: In 1999, he enrolled as a PhD student at Washington State University’s Center for Reproductive Biology just a year after it opened; eighteen years later, he is the center’s director.

Jon’s research has also followed a circular path. With a background in cattle farming and a desire to improve the process of creating food animals, he focused his graduate research on reproductive stem cells in cattle. His time is now divided, with about half of it spent looking at ways to produce food animals more efficiently using stem cells in reproductive tissues. The remainder is devoted to solving the issue of chemotherapy-induced infertility in men and boys by preserving, then reintroducing, stem cells in the testes.

Involvement with ARCS is yet another way Jon’s experience has come full circle. The recipient of an ARCS Fellowship while pursuing his PhD, he now sees the benefits of a Fellowship from an educator’s perspective. And, while an ARCS Fellowship clearly offers a financial benefit, Jon believes ARCS also serves another important, often overlooked, purpose. “Scientists don’t often have an opportunity to communicate with the public,” he notes. “ARCS provides a forum for learning how to explain research not only to potential funders, but also to the media and the general public. It’s very useful training.”
2017 marks the tenth year that Lynn Manley and her husband, Lex Lindsey, have hosted the ARCS convocation for University of Washington third-year Fellows. Says Lynn, “Watching the scholars give their presentations creates a feeling of awe ... it just never wears off.”

ARCS Foundation Seattle is pleased to present Lynn Manley with the 2017 ARCS Light Award, given to a member who has made significant contributions to the chapter. After joining ARCS in 2002, Lynn went on to become an active board member and also served as the organization’s vice president of finance. Through their family’s foundation, Lynn and Lex fund two UW endowments and are currently funding their tenth ARCS Fellowship.

Lynn’s background includes 40 years of banking, with Fortune 500 companies among her clients, for Rainier Bank (later Security Pacific Bank of Washington) and US Bank. She has volunteered her time and resources for the Seattle Repertory Theatre, the Seattle Repertory Theatre Foundation, Washington State University’s College of Business, PATH, and the Lauren Rogers Museum of Art; she’s currently a co-chair representing the UW’s School of Natural Sciences in the capital campaign.

“ARCS is the perfect storm of science and education,” says Lynn. “I’m thrilled by the honor of this award.” Lynn, with her exemplary dedication, is exceptionally deserving of this year’s ARCS Light Award.
The Seattle Chapter of ARCS Foundation thanks its many donors who made individual gifts between July 1, 2016 and June 30, 2017 (excluding contributions of Named Endowments and Named Fellowships, listed on the following page).
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NAMED FELLOWSHIPS

Named Fellowships are created by donors who understand the difference made by graduate students in recruiting and supporting world-class graduate students. These donors each contribute $17,500 over three years to fund and name a fellowship. A Named Fellowship also provides a donor with a unique opportunity to engage with an individual ARCS Foundation Fellow and to support his or her research.

ENDOWMENTS

Stable, sustained financial support for our graduate students is the goal of the Seattle Chapter of ARCS Foundation. By creating a Named Endowment with a gift of $100,000 or more, a donor supports new graduate student fellowships in perpetuity at the University of Washington or Washington State University.

Thanks to the extraordinary generosity of the donors listed below, the Seattle Chapter has established 51 endowed Named Fellowships since 1990. Many of these generous donors have benefited from matching funds provided through the UW or WSU.

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