University Partnerships

ANNUAL REPORT 2016

Idaho National Laboratory

Crossing NEW HORIZONS

INL UNIVERSITY PARTNERSHIPS EXPANDS ACADEMIC PRESENCE ACROSS THREE CONTINENTS

From summer internships to research fellowships, Idaho National Laboratory's University Partnerships Directorate plays an integral role in growing the lab's resources and widening its impact around the academic world.

In 2016, INL University Partnerships programs hosted 672 people from 138 institutions across the United States and abroad. Employee education accounted for 237 people from 33 institutions. The remaining 435 included:

Interns (331 people from 94 institutions, 11 of them from eight institutions outside of the U.S.)

Joint Appointments (20 people from 11 institutions)

Postdoctoral Researchers (41 people from 32 institutions, three of them outside of the U.S.)

International Researchers (14 people from five institutions outside the U.S.)

Academic Visitors (eight people from six institutions)

Faculty Researchers (two people from two institutions)

Teaming Teachers (one person from one institution)

Practicums (18 people from two institutions)

The collaborative relationships INL has developed with institutions in North America, Europe and Asia have played an increasingly important role in meeting the lab's critical staffing needs. In the lab's recruitment of interns and postdoctoral researchers, the University Partnerships Directorate was responsible for close to 40 percent of new hires.

With 30 percent of its employees nearing retirement age, INL recognizes that to grow and thrive it must offer members of the next generation hands-on lab experience, as well as mentoring from experienced professionals.

There was a 28 percent increase in the number of postdoctoral researchers at INL in 2016, the year that saw the introduction of the Russell L. Heath Postdoctoral Program, aimed at providing a source of funds for early-career strategic hires who show the potential to become INL's future leaders in science and technology.

28%

INCREASE IN THE NUMBER OF POSTDOCTORAL RESEARCHERS AT INL IN 2016

Understanding a workplace's culture and environment is essential to guaranteeing its future. In-house, University Partnerships helps lab employees further their educations in the fields of chemistry, nuclear, mechanical and electrical engineering, computer science,

business management, biology and geology.

INL's University Partnerships Directorate also helps current employees with continuing education by covering tuition and fees for classes. This has proven to be a great benefit not only to employees but to their families and neighbors, with more class offerings and expanded educational opportunities.

By bringing in distinguished researchers, the University Partnerships Joint Appointments Program links the lab with the brightest minds of academia, opening new research horizons. Top accomplishments of 2016 include the agreement between INL and Massachusetts Institute of Technology, making INL's Dr. David Petti executive director of a team reporting on The Future of Nuclear Power. The national technical co-director of DOE's Advanced Reactor Technologies program, Petti is regarded as the leading authority on high-temperature gas-cooled

INL is filled with people dedicated to using their intellect and skills to make the world safer, cleaner and more equitable.

reactor technology from the Next Generation Nuclear Plant program.

The past year also marked the advent of University Partnerships' mentoring workshops. The format allows participants to share their experience, leveraging "real cases" as learning and discussion tools.

Through its collaborative efforts, programs and agreements with the "best and brightest" around the world, University Partnerships looks forward to 2017 as a year in which even more horizons can be crossed.

Employee EDUCATION

40 YEARS OF COLLABORATION

The partnership between Idaho National Laboratory and institutions of higher learning passed the 40-year mark in 2016. On July 1, 1976, University Place opened its doors on the north side of Idaho Falls. Originally called the Intermountain Science Experience Center, the project received significant help from the Atomic Energy Commission (which would become part of the U.S. Department of Energy a year later). This became the nucleus of an Idaho Falls campus for Idaho State University and the University of Idaho. The campus has since grown to several acres of classrooms and laboratories, where students pursue undergraduate and graduate degrees in science and engineering.

Lab employees at all levels are encouraged to seek degrees, continue their studies and pursue professional licensing and certification. To help make this possible, INL covers tuition and fees from accredited institutions.

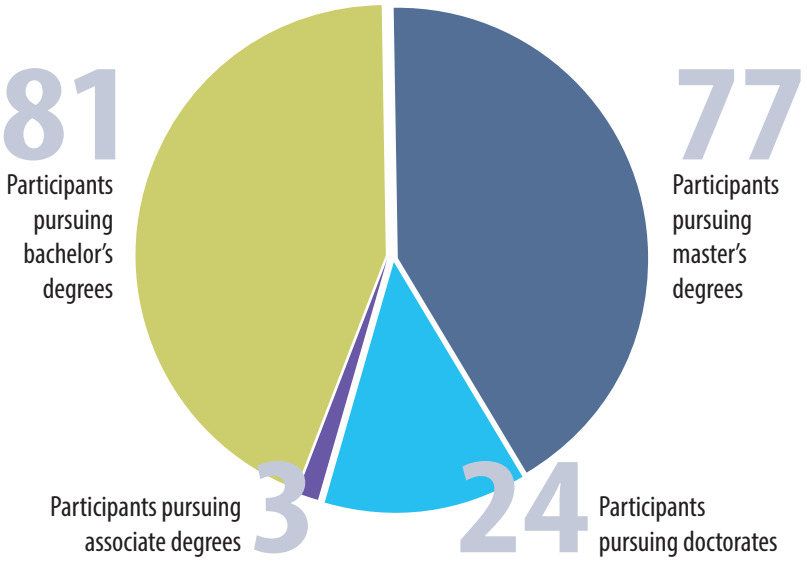
TRENDING UPWARD

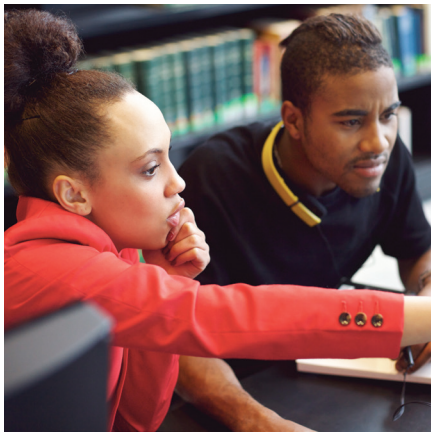
Based on trends, INL anticipates seeing more participation in employee education. In FY 2016, there was an overall increase of nearly 20 percent in people seeking degrees (185), up slightly from FY 2015 (176) but almost double the number from FY 2014 (96).

When working full-time and pursuing a degree, persistence is a key factor. After investing in an employee's education, INL plans to reap the benefit by keeping employees at the lab. To date, the graduate retention rate for employee education is 100 percent, continuing the trend from FY 2015, when it was 94 percent, and bringing the five-year average to 88 percent.

SATISFACTION LEVEL HIGHER

Over the past two years, overall satisfaction among student employees has improved to 96 percent, with 95 percent of participants saying they would use the benefit again. Employee education opportunities were most highly utilized by employees with 10 or less years of experience at



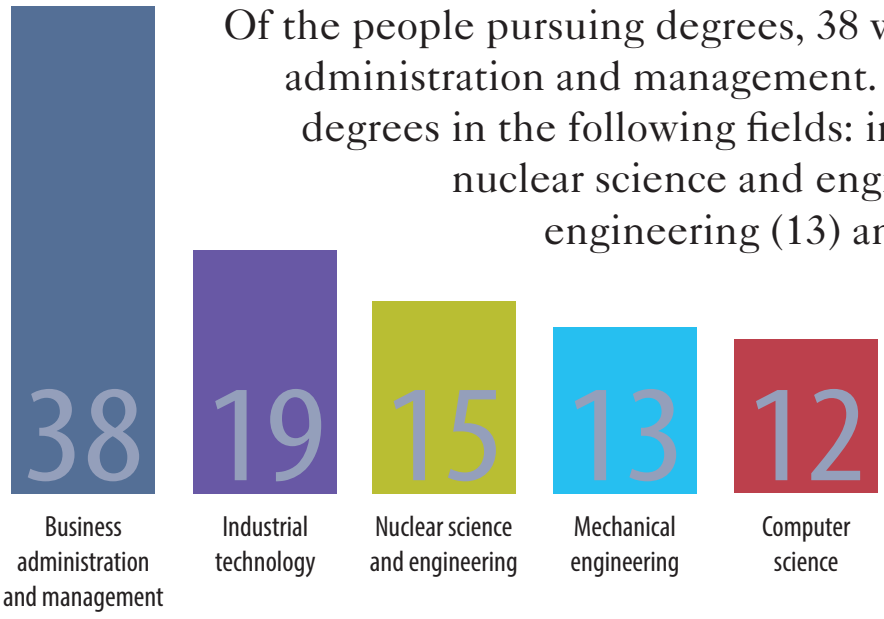


the lab. There were 91 employees with less than five years of experience, and 74 employees with five to 10 years of experience.

LEADING FIELDS

Aligning programs with lab needs is critical for ensuring that the investment in continuing education is money well spent. The University Partnerships Directorate works closely with INL leadership to ensure that employees' educational pursuits support the lab's agenda and core capabilities. Lab managers identified project management, followed by computational science and engineering, as the top fields where training and education were needed. Power and energy systems, information systems management and information/cybersecurity also ranked highly.

Of the people pursuing degrees, 38 were majoring in business administration and management. Another 59 were seeking degrees in the following fields: industrial technology (19), nuclear science and engineering (15), mechanical engineering (13) and computer science (12).



Interns
A KEY TO THE FUTURE

In summer 2016, nearly 350 students came to INL to do everything from cybersecurity to rare earth extraction to building a process control loop out of junked spare parts. In all, students from 94 universities around the United States and overseas participated as interns.

From the lab's perspective, it isn't just about attracting and developing future talent but spreading awareness of what INL has to offer. This can result in more collaboration with industry, academia and other partners. From the point of view of the researcher, interns offer a number of advantages: fresh perspective that allows them to think more openly about the research they're doing, and assistance that allows them to engage in research they might not ordinarily have the time to pursue.

BY THE NUMBERS

Targeted on-site recruiting occurred at events held on more than 20 university campuses. Lab representatives visited Carnegie Mellon, New Mexico Tech, Penn State, Purdue, Texas A&M, University of Utah, Washington State University, Colorado School of Mines, University of Michigan and University of Tulsa. Outreach efforts included participation in career fairs, meetings with professors, career center visits and student presentations. On top of that effort, INL representatives conducted outreach activities with 49 other universities. The end result was close to 1,600 applicants from 236 universities.

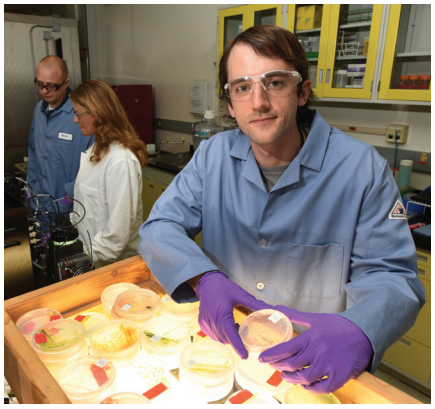
Two consortia established by INL in 2005, the Center for Advanced Energy Studies and the National University Consortium, supplied a significant number of interns:

CAES

- **37** Idaho State University
- **18** University of Idaho
- **4** Boise State University
- **3** University of Wyoming

NUC

- **13** University of New Mexico
- **13** North Carolina State University
- **10** Oregon State University
- **5** Ohio State University
- **3** Massachusetts Institute of Technology



In summer 2016, $310,000 was awarded in support of INL's Office of Science Workforce Development for Teachers and Scientists Programs, which included the Visiting Faculty and Student Program, Student Undergraduate Laboratory Program, and Community College Internship Program. In all, this drew 28 program participants from across the nation.

STREAMLINING FOR SAVINGS

To facilitate the integration of newly hired interns, INL streamlined its process, allowing intern new hires to do their paperwork securely online and transmit it electronically. No longer do students have to print,

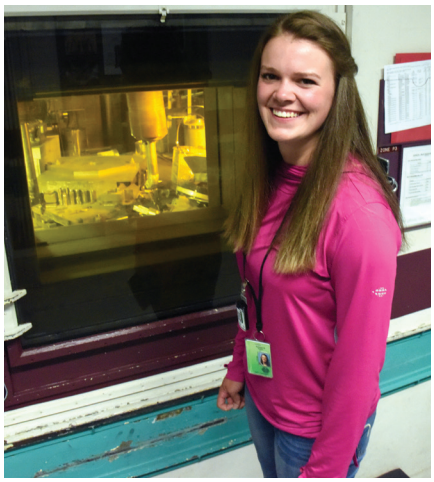
More than **1,600** applicants from **236** universities applied for INL internships.

sign, scan and return more than 80 pages of material. This has saved a minimum of two hours per hire, equaling more than 600 hours of time savings.

MISSION AREAS

Internships are granted in three fields of study:

Nuclear Energy (advanced nuclear fuels, nuclear reactor systems, modeling and simulation, safety and risk assessment, materials and fuels management, advanced test reactor experiments and space power systems)



Energy and Environment (hybrid energy systems integration concepts, electric vehicle system diagnostics and testing and biomass research)

National and Homeland Security (safeguarding fissile materials from proliferation, addressing secure communications channels for first responders, and strengthening reliance of cybersecurity and critical infrastructure)

Interns are also offered opportunities in business support and operations, marketing, communications and logistics, to name a few other disciplines.

Student interns had more opportunities in 2016 to participate in career-oriented activities, most notably the new Career Exploration Seminar Series. The seminar sessions were tailored to students in specific degree fields, aimed at inspiring thought and discussion about possible career pursuits. Practical advice was offered as well, on such topics as how to apply for graduate school, interviewing and resume writing.

In addition to gaining career perspectives, the summer intern program offers opportunities to form new friendships and embark on adventures, taking full advantage of the hiking, fishing and mountain biking opportunities in the region.

Postdoctoral RESEARCHERS

Idaho National Laboratory views a robust postdoctoral program as essential to its future. The engagement of early career research talent is critical to the success of INL's mission areas.

In 2016, the program received 952 applications and grew 28 percent, added its first distinguished postdoctoral fellowship program and implemented several enrichment activities.

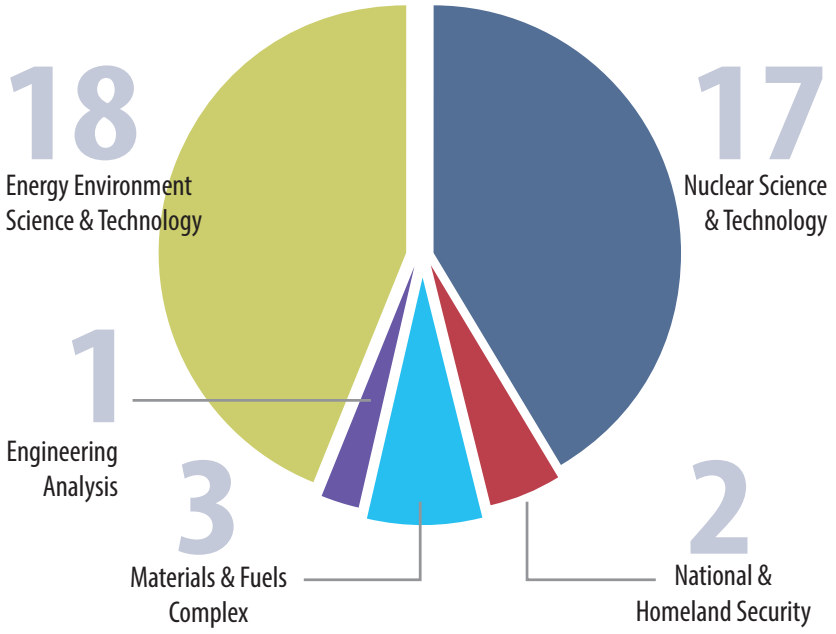
Postdoctoral appointments provide hands-on research and development experience under the supervision of qualified mentors, opening the way to research independence. While enhancing the quality of the INL workforce, the work done by postdoctoral researchers advances the lab's missions in the fields of nuclear energy, critical infrastructure protection, cybersecurity and clean energy innovation. By performing in a rich science and technology environment and presenting and publishing research, postdocs contribute to the overall research efforts of the laboratory.

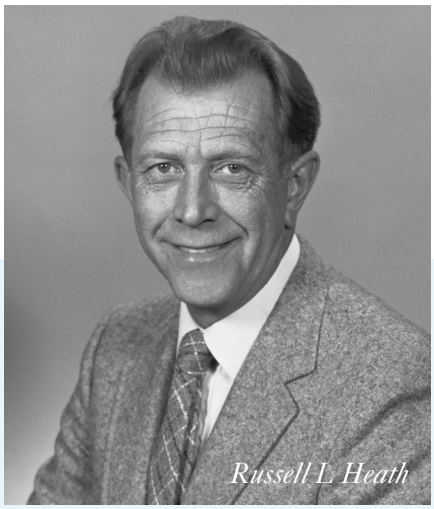
BY THE NUMBERS

INL's 41 postdoctoral researchers were in the following areas in 2016:

952

NUMBER OF APPLICATIONS TO INL'S POSTDOC PROGRAM





"This marks the beginning of a new adventure for INL, one we anticipate brings even greater attention to our reputation for outstanding science and innovation." — *Mark Peters, INL Director*

RUSSELL L. HEATH POSTDOC APPOINTMENT

The Russell L. Heath postdoctoral appointment has been established to attract, recruit, develop and inspire early-career researchers who have the potential to develop into INL's future scientific and technical leaders. It is named after Dr. Russell L. Heath, who came to the Atomic Energy Commission's National Reactor Testing Station in 1952, and gained an international reputation as the "Father of Gamma Ray Spectrometry." The national laboratory now called INL has its roots in AEC's NRTS, which came to eastern Idaho in 1949.

These appointments are highly competitive and are intended to recognize and provide associates with an academic honor, research experience, mentorship, and training to develop their capabilities.

Idaho National Laboratory in 2016 named Dr. Cheng Sun as its first honoree under the newly established Russell L. Heath Distinguished Postdoctoral Associate Program. This was INL's first distinguished postdoctoral appointment, and more are expected.

Dr. Sun came to INL in September from Los Alamos National Laboratory, where he had been a postdoctoral associate since May 2013. He holds a Ph.D. in materials science and engineering from Texas A&M University. His research areas include advanced structural materials, nanostructured materials, and mechanical property relationships of materials in extreme conditions such as high temperature and high flux.

"We have high hopes for all of our postdoctoral appointments and believe we are going to see great things from our first distinguished postdoc, Dr. Sun," said INL Director Mark Peters.

University WORKFORCE DEVELOPMENT

PRIMING THE TALENT PIPELINE

In the 67 years since the United States Atomic Energy Commission came to Idaho, one thing that has remained constant is the profound effect it has had on the workforce at a local, regional and state level.

Today, Idaho National Laboratory stands on the threshold of a new era. The lab is a key player in regional and national efforts to create the energy and technology workforce of tomorrow. But 30 percent of INL's workforce is at least 50 years of age and approaching retirement. Combined with a growth in business volume at the lab, developing a talent pipeline is one of INL's most important missions. The impending shortage not only affects researchers, there is also an acute need for highly trained, qualified and talented technicians and mechanics.

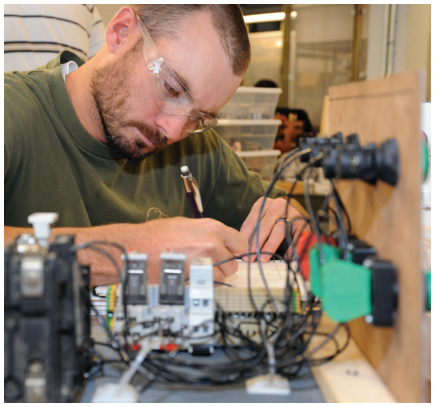
The University Workforce Development program helps create an environment in which technology can be brought to market by meeting industry needs and making sure the next generation of tech workers is prepared to step into the shoes of the longtime employees. This is done in a variety of ways, including support for economic development agencies, universities and graduate programs.

STEM EDUCATION

Through the University Partnerships Directorate, INL supports STEM education in public schools and partners with universities through a number of programs. A partnership among INL, Idaho State University and Partners for Prosperity, an eastern Idaho-based nonprofit organization, has resulted in the creation of the Energy Systems Technology and Education Center (ESTEC) in Pocatello.

$200K

AIDED BY A $200K INVESTMENT, INL HAD EIGHT ESTEC INTERNS IN 2016 AND WAS ABLE TO BEGIN ANNUAL ENROLLMENT.



ESTEC offers a unique approach to educating students by offering the specific knowledge and skills needed in energy production. The skill requirements have been developed in partnership with energy utilities and vendors to assure that program graduates enter the workforce with the precise skills required by the energy industry in a broad spectrum of electrical, oil, gas, renewable and allied manufacturing sectors. Students learn through traditional classroom experience and extensive laboratory exercises. Electrical generation technologies addressed include nuclear, coal, gas and renewable technologies.

HIGHLIGHTS OF 2016

INL's $100,000 investment enabled Eastern Idaho Technical College (EITC) to reinstitute the Radiation Control program. With the first class, 100 percent of the graduates were placed with INL or Fluor Idaho, the company that took over the Idaho Cleanup Project in 2016.

Another development that would not have taken place without technical and financial support from INL was the University of Idaho's request to the Idaho Department of Labor for a program to provide fire protection certification. University of Idaho received a $244,000 training grant to develop an online, 18-credit certification program to train fire protection specialists and engineers. With that in place, UI plans to train 30 people within two years.

PRACTICUMS

Practicums are an unpaid opportunity for students to apply what they are learning in the classroom in a working environment under the guidance of a professional. From INL's side of the equation, managers have the opportunity to evaluate students and their potential for employment after they have completed their training. Radcon technician students from Eastern Idaho Technical College "job shadow" professionals at the Materials & Fuels Complex and the Advanced Test Reactor Complex. In the Occupational Medicine Program, University of Utah candidates studying to be physicians are given the opportunity to work alongside INL physicians, getting hands-on training in a safe environment.

$23.00

STARTING WAGES UPON COMPLETION OF THE PROGRAM ARE AN ESTIMATED $23/HOUR.

MY AMAZING FUTURE

My Amazing Future is a program that allows eighth-grade girls from southeast Idaho to learn about STEM fields and professionals serving in them. In 2016, 150 students participated in a full day of hands-on sessions designed to be educational and engaging. Twenty different sessions are designed to illustrate how a STEM education translates into exciting career options. Among the offerings, teens had the opportunity to catch a hacker, identify density through a drink, and learn about powering a deep space mission.

Worldwide IMPACT

39
STATES PLUS THE DISTRICT OF COLUMBIA

10
COUNTRIES (GERMANY, ITALY, CANADA, SOUTH KOREA, CHINA, FRANCE, DENMARK, ENGLAND, JAPAN AND USA)

124
UNIVERSITIES, COLLEGES, AND TRADE SCHOOLS

4
OTHER AGENCIES

10
HIGH SCHOOLS

337 STUDENTS AND FACULTY FROM IDAHO SCHOOLS PARTICIPATED IN INL UNIVERSITY PARTNERSHIPS PROGRAMS IN 2016.

Jeff St. Joer, Office of Science intern, critical materials recovery.

Postdoc Computational Scientist Swetha Veeraraghavan represents a growing international presence at INL.

PROGRAM	FY15	FY16	GROWTH
Academic Visitors	4	8	100.0%
Employee Education	198	237	20.0%
Faculty Researchers/ Teaming Teachers	0	3	300.0%
International Researchers	13	14	7.6%
Interns	322	331	3.0%
Joint Appointments	18	20	11.0%
Postdocs	32	41	28.0%
Practicum	27	18	-33.0%
TOTAL	**614**	**672**	**9.44%**

Summer Science Camps at Eastern Idaho Technical College offer exciting weeklong opportunities for young people to gain new insights into mathematics, science and computers. Typically, close to 450 students from kindergarten through 12th grade attend the camps each year. They exit the program with either a new or renewed interest in STEM subjects. INL is a wholehearted supporter of such programs, recognizing that this is where many of its future employees first develop a passion for science and engineering.

Historical TIMELINE

Timeline	Pre-2005	2005	2007	2009	2011	2013	2014
Employee Education	Started 1954					Deep Dive	Audit Revamped Program
Faculty Researchers							
International Researcher				Started Sponsoring J-1 VISAs through DOE			
Interns	Subcontracted from ACE - ORAN - Washington State University	Converted to INL Interns					
Joint Appointments		Started Program					Deep Dive
Postdocs	Subcontracted from Washington State University		INL Project Hires			Benchmarking Transition from HR to UP	Reduced Burden Rates Introduced
Practicum							Nonemployee Subcontractors
Recruiting Plan							
Teaming Teachers						Staff Augmentation / STEM Experts	
Workforce Development (ESTEC, EITC, UI, BSU)			ESTEC (Continuing)				
University Partnerships							

Calendar OF KEY EVENTS

2015	2016
Congratulatory Letters	Advocacy/Liaison
	New Program in 2016
	Implemented Welcome Meeting Implemented Brief Exit Interview
Intern Art Expo - Added Art Category to Poster Sessions Added Additional FTE to Support Program Growth Started Recruiting at Career Fairs	Brief Orientation for Externally Funded Interns Updated Internal Tracking System (EPAD) Added New Surveys: Mentor End of Season Survey and Intern Mid-Point Survey Enrichment Calendar with New Seminar Series New Application Process Revamped New Hire Orientation Streamlined Electronic Paperwork
	Implemented New Program New Blanket Master Agreements
Professional Development Enrichments (Monthly Seminar Series) Aligned Program with National Postdoc Association Annual Postdoctoral Networking Dinner Event	Distinguished Postdoc Program
	Revamped Program
Started Recruiting at Career Fairs	
	Revamped Program
EITC RadCon	UI Fire Protection BSU Cyber Security
	Mentor Workshop Updated Internal and External Webpage Content

January	Summer Intern Offers Begin
February	Mentor Workshop Summer Intern Offers
March	Mentor Workshop My Amazing Future Summer Intern Offers
April	Summer Registration for Classes Q3 Russell L. Heath Postdoc Posting FY Generic Posting Summer Interns On Site
May	Summer Interns On Site
June	Graduation Summer Interns on site
July	JA Amendment Renewals/Contract Negotiations Commence Fall Registration for Classes Summer Interns On Site
August	Intern Expo Summer Intern Terminations
September	Postdoc Fellows Dinner National Postdoc Appreciation Week University Recruiting FY Generic Intern Posting Opens
October	University Recruiting Mentor Requests for Interns Opens Q2 Russell L. Heath Postdoc Posting
November	Mentor Workshop
December	Spring Registration for Classes Previous FY Annual Report Issued

Academic & Research VISITORS

ACADEMIC VISITORS/ VISITING RESEARCHERS

University researchers who regularly meet with INL scientists and engineers (more than six weeks a year) may request a security badge through the Academic Visitors program. Academic visitors must meet INL security badge requirements and undergo additional training that may be required for specific facilities.

Visiting researchers can participate in a variety of activities, including but not limited to:

- Guest lectures
- Collaborations with INL researchers, funded jointly by INL and the university
- Providing education to INL staff
- Mentoring INL staff on new technology or academic research
- Discussing topics of mutual interest

8 ACADEMIC VISITORS CAME TO INL IN 2016, DOUBLE THE NUMBER FROM 2015.

INL's Academic Visitors program promotes collaboration among university staff, research personnel and INL research organizations.

An academic visitor does not receive any funding from INL but can interact with lab employees and discuss topics of mutual interest or potential research collaborations.

Academic Visitors came from the following universities:

NUCLEAR SCIENCE & TECHNOLOGY	ENERGY ENVIRONMENT SCIENCE & TECHNOLOGY
1 Brigham Young University-Idaho	**1** Weber State University
2 University of Texas	
1 Weber State University	
MATERIALS & FUELS COMPLEX	**INFORMATION MANAGEMENT**
1 Colorado School of Mines	**1** Boise State University

INTERNATIONAL RESEARCHERS

The Department of Energy's Visitor Program, in which INL takes part, provides international researchers opportunities to collaborate with INL researchers and scientists. By sharing ideas and research and having access to authorized INL facilities, international researchers are able to take full advantage of the lab's resources. By participating in a cultural exchange in the United States, they can then share their experiences with friends, families and colleagues when they return home, helping further the U.S. State Department's foreign policy objectives.

DOE's Visitor Program sponsors visitors on J-1 Visas in these categories:

- Government visitor
- Specialists
- Short-term scholars
- Research scholars

The Visitor Program is incredibly valuable to INL's scientific community; it encourages looking at research from diverse perspectives and fosters collaboration with international researchers, thereby providing a cross-cultural exchange which inspires creativity.

Interest in the International Researcher Program has continued to increase. To help visiting researchers feel more welcome, representatives from University Partnerships meet individually with each upon their arrival at INL, providing information about the lab and community activities. Likewise, exit interviews are conducted to gain information about what can be done to improve the program. INL's Multicultural Employee Resource Group has been invaluable in the help it has provided, identifying and addressing practices and factors that might have caused international employees and foreign nationals to feel they were being treated in a less-than-inclusive manner. For example, a security plan can now be modified to permit international researchers to work with fellow researchers who may be in time zones abroad.

This program enables INL to bring several distinguished researchers and scientists to the lab to participate in vital programs and projects.

In 2016, INL welcomed international researchers from the following places:

Republic of Korea (South Korea) (10): Korean Atomic Energy Research Institute (KAERI)

Japan (2): Ministry of Economy Trade and Industry (METI), Japan Atomic Energy Agency (JAEA)

France (1): French Alternative Energies and Atomic Energy Commission

People's Republic of China (1): China Academy of Engineering Physics and China Agricultural University

Teaming WITH TEACHERS

ALLIED WITH EDUCATION

INL has a long history of close association with the schools in the area. INL recognizes that developing talent at a local level is as important as recruiting the best talent from around the world. To this end, teachers are the lab's most natural allies.

It is essential for the next generation to have advanced critical thinking skills, integrated with an understanding of science, math, engineering, physical and life sciences and the application of technological concepts.

TEAMING TEACHERS

Teaming Teachers is a professional development program for K-12 educators. Through this summer program, educators work with INL scientists and technical experts on research projects relevant to the classes they teach.

The program helps teachers deepen their knowledge of science, technology, engineering and mathematics and hone their instruction skills. Participants return to their classrooms with new skills and energize students to think about careers in science, mathematics, engineering or technology. The program is open to

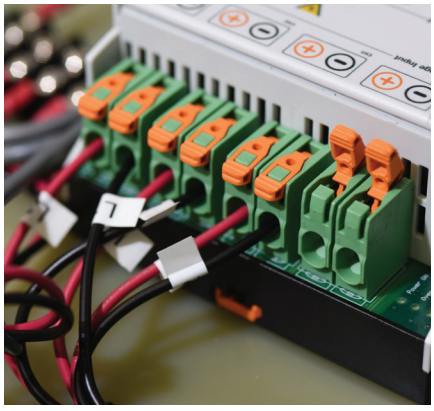
- Experienced teachers who demonstrate an intellectual curiosity and enthusiasm for learning.
- Teachers who are U.S. citizens or permanent resident aliens.

Participants receive an hourly wage commensurate with their academic credentials and experience for their participation in the eight-week program.

8,701

TEACHERS PARTICIPATED IN THE PROFESSIONAL DEVELOPMENT PROGRAMS IN 2016.

Faculty RESEARCHERS



2016

UNIVERSITY PARTNERSHIPS LAUNCHED THE FACULTY RESEARCHER PROGRAM.

University Partnerships launched the Faculty Researcher program in 2016, allowing prominent professors to conduct research at Idaho National Laboratory during breaks from teaching.

A university faculty member is able to collaborate with INL lab researchers, sharing ideas and processes.

When they return to their academic duties, they are able to share with students and colleagues what they have learned at INL. Equally important, they act as advocates of INL research and programs, encouraging students to pursue internships and postdoctoral research opportunities.

The first two researchers in the program were both involved with Dr. Rob Hovsapian in the Power and Energy Systems in the Energy Environment Science & Technology directorate. They were:

Dr. Charles Boncelet, associate chair of the Electrical & Computer Engineering Department at University of Delaware and a professor of Computer & Information Services.

Dr. Anurag K. Srivastava, associate professor in the Washington State University School of Electrical Engineering and Computer Science director in the Smart Grid Demonstration and Research Investigation Laboratory.

Both researchers collaborated and worked with team members of INL's Real Time Power and Energy Innovation Laboratory R&D team.

Joint APPOINTMENTS

A joint appointment is an arrangement in which a researcher has formal ties to both INL and a university. These partnerships enhance collaboration, as joint appointees conduct research and development at both home and host institutions.

Researchers profit by having access to INL employees and resources, while INL benefits from having ties with multiple university research programs. Joint appointments also allow opportunities to participate in specific proposals that might otherwise be impossible.

A joint appointment can work in one of two ways:

Incoming

A UNIVERSITY EMPLOYEE IS REQUESTED TO COLLABORATE ON SITE AT INL.

Outgoing

AN INL EMPLOYEE IS REQUESTED TO COLLABORATE AT A UNIVERSITY.

Through the program, laboratory employees may teach courses and conduct research at partner universities or professors can work with INL on collaborative projects. Within a joint appointment agreement, both INL and the university share in the costs of the joint appointment.

Highlights of 2016 included an agreement signed with Massachusetts Institute of Technology under which Dr. David Petti began working part-time in Cambridge as the executive director of a national team charged with an MIT report on The Future of Nuclear Power. He has served as DOE's Advanced Reactor Technologies Program national technical co-director, and has extensive experience in the development of the high temperature gas-cooled reactor under the Next Generation Nuclear Plant program. He has led a study on potential advanced test and demonstration reactor options for DOE, work that was taken into account as MIT and INL made their agreement.

As the Joint Appointment program expands, new categories are being considered. These include:

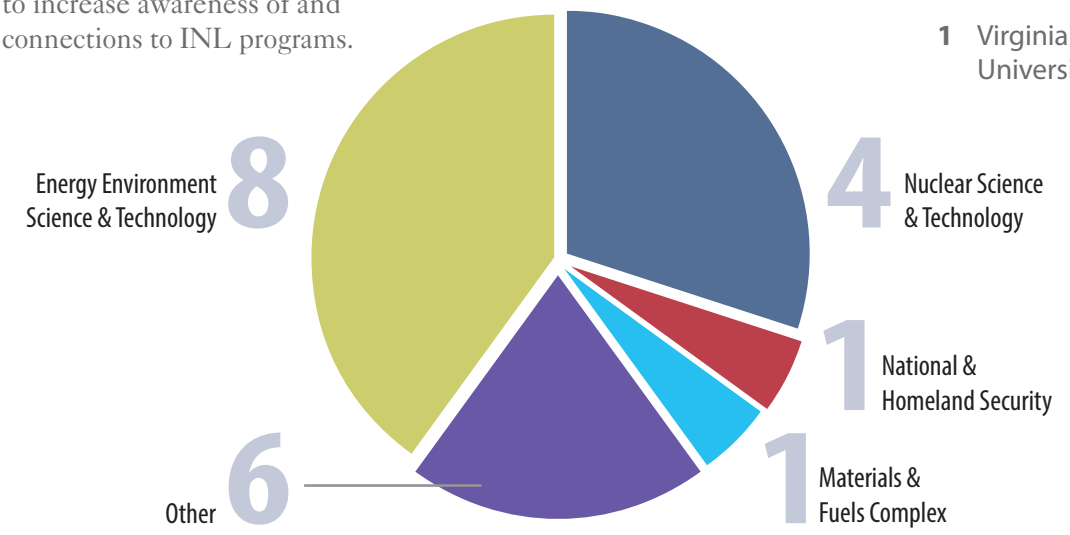
Distinguished Joint Appointment Fellow: This designation, under development, will be equivalent to an INL Laboratory Fellow, with strategic high-level connections and a focus on research and development.

Teaching Only: This designation serves to develop new talent for INL, a critical need as a significant portion of the lab's workforce nears retirement age. There is no research component; rather, a focus on teaching university students to increase awareness of and connections to INL programs.

The process for negotiating joint appointments was streamlined in 2016 in two significant ways. A new costing model was adopted and a process for blank master agreements was implemented. Negotiations took place with 13 institutions, and three new, highly ranked institutions – MIT, Purdue and University of Utah – entered the fold. Overall, INL's number of joint appointments grew from 18 to 20 in 2016, representing growth of 11 percent.

JOINT APPOINTMENTS BY UNIVERSITY

- **3** Boise State University
- **1** California State University, Long Beach
- **5** Idaho State University
- **1** Indiana University
- **1** Massachusetts Institute of Technology
- **1** North Carolina State University
- **1** Oregon State University
- **3** University of Idaho
- **1** University of Nevada, Las Vegas
- **2** University of Wyoming
- **1** Virginia Commonwealth University



University Partnership

PARTICIPANTS

EMPLOYEE EDUCATION (220)

American Graduate University
Melissa Smith, Business Administration/ Management
American Military University
Jeremy Walker, Geographic Information Science
American Military University
Kelly Nead
Donda Walsh, Business Administration/Management
Arizona State University
Shannon O'Brien, Organizational Leadership Sciences
Arizona State University
Travis Stoor, Applied Science
Boise State University
Carl Fennen, Business Administration/Management
Brigham Young University - Idaho
Nikki Peterson, Computer Science
Colorado Technical University
Daniel Jones, Computer Science
Ralph Herrera, Measurement and Control Engineering
Columbia Southern University
Jana Collier, Business Administration/Management
Eastern Idaho Technical College
Tamara Field
Robert Bates
Jeffery Allen
Embry-Riddle Aeronautical University
Casey Pfannenstiel, Business Administration/Management
Excelsior College
Scott Nelson, Business Administration/Management
Jason Andrews, Organizational Leadership/Sciences
Andy Kline, Computer Science
George Mason University
Jonathan Homer, Technology Management
Jennifer Hoggard
George Washington University
Christopher Michelbacher, Business Administration/ Management
Georgia Institute of Technology
Monir Kohi, Computer Science
Idaho State University
Drew Thomas, Business Administration/Management
Bria Rucks, Business Administration/Management
Thomas Walters, Mechanical Engineering
Michael Heighes, Mechanical Engineering
Rachel Emerson, Chemical Engineering
Jodi Grgich, Business Administration/Management
Glenn Russell, General Studies
Brenden Heidrich, Business Administration/Management
Jonathan Kirkham, Nursing
Ramazan Sen
Jorge Navarro
Wilson Cowherd
Justin Herter
Marinelle Rowe, Human Resource Training & Development
Rocklan McDowell
Troy Unruh, Nuclear Science/Engineering
Danielle Perez, Mechanical Engineering
Nate Oldham, Chemistry
Kylee Lambert, Business Administration/Management
Bradley Gravatt, Business Administration/Management
Lisa Hawkins, Organizational Leadership/Sciences
Kort Bowman, Business Administration/Management
Trin Davis, Business Administration/Management
Robert Richardson, Business Administration/Management
Tyson Williams, Business Administration/Management
Brian Simons
Steven Prochko, History
Aleksey Rezvoi, Nuclear Science/Engineering
Mick Romrell, Workplace Training & Leadership
Alesha Jorgensen, Human Resource Training & Development
Luca Rich, Business Administration/Management
Candace Moehnke, Business Administration/Management
Matthew Bryant, Physics
Patrick Bragg, Nuclear Science/Engineering
Daniel Mecham, Physics
Mason Jaussi, Renewable Energy & Sustainability Systems
Tony Koonce, Emergency Management
Jonathan Alvarez, Mechanical Engineering
Kent Bryant, Business Administration/Management
Cory Johnson, Mechanical Engineering
Christina Morgan, Information Technology
Shana Jensen, Physics
Jennifer Eisenbeis, Business Administration/Management
Arthur Baker, Nuclear Science/Engineering
Amy Loya, Electrical Engineering
James Blair, Fire Services Administration
Patrick Kelly, Fire Services Administration
Garth Lambson, Engineering Management
Brady Austin, Environmental Science
Logan Lewis, Business Administration/Management
Jennifer Hanson, Fire Services Administration
Brycyn Campbell, Environmental Science
D Chad Jackson, Workplace Training & Leadership
Justin Mathewson, Electrical Engineering
Brandon Stucki, Emergency Management
Paul Marley, Criminal Justice - Homeland Security
Braxton Herrick, Organizational Leadership/Sciences
Greg Watson, Emergency Management
Thairel Jackson, Mechanical Engineering
Anthony Wise, Jr., Business Administration/Management
Justin Spaletta, Emergency Management
Tyler Aicher, Information Technology
Kevin Page, Business Administration/Management
Jeffrey Anderson, Workplace Training & Leadership
Gerardo Martinez, Electrical Engineering
Chase Benjamin, Nuclear Science/Engineering
Rita Hoggan, Nuclear Science/Engineering
Zachary Rowe, Human Resource Training & Development
Quade Anderson
Kelly Williams, Business Administration/Management
Jeremy Fregoso, Geology
Cameron Krome, Communication
Christopher Kowalczyk, Business Administration/ Management
Lancaster University UK
Rick Demmer, Nuclear Science/Engineering
Montana Tech of the University of Montana
Anthony Colson, Human Resource Training & Development
Montana Tech of the University of Montana
Robert Lang, Human Resource Training & Development
Oregon State University
Jennifer Anderson, Psychology
Jared Hawley, Civil Engineering
Park University
Danielle Cooley, Business Administration/Management
Pennsylvania State University
Piyush Sabharwall, Software and Mobile Applications Development
Jeffrey Anderson, Mechanical Engineering
Regis University
Douglas Peterson, Communication
Charity Ann Wakley, Technology Management
Strayer University
Orin Harman, Business Administration/Management
SUNY Buffalo
Justin Coleman, Chemical Engineering
Thomas Edison State College
Dean Humphrys, Nuclear Science/Engineering
University of Alabama
Robert Crockett, Civil Engineering
Brandon Hernandez
University of Idaho
Leslie Ovard, Environmental Science
Jill Blanding, Organizational Leadership/Sciences
R Duane Ball, Environmental Science
Sergio Hernandez,
Timothy McJunkin, Computer Science
James Case, Emergency Management
Devin Imholte, Mechanical Engineering
Skylar Cox, Mechanical Engineering
Ryan Davis, Mechanical Engineering
Cheradan Fikstad
Travis McLing, General Studies
Cody Permann, Computer Science
Warren Jones, Computer Science
John Biersdorf, Mechanical Engineering
Kevin Lyon, Business Administration/Management
Melissa Warner, Engineering Management
Douglas Marshall, Business Administration/Management
Russell Gardner, Mechanical Engineering
Leah Kite, Psychology
David Oliver, Technology Management
RyanHruska, Computer Science
Timothy Klett, Computer Science
Dane Sterbentz, Mechanical Engineering
Douglas Erikson,
Stefanie Johnston, General Studies
Maxine Johnson, Technology Management
MW 'Mike' Patterson, Nuclear Science/Engineering
Lisa Nate, Technology Management
Douglas Stevenson,
James Peters, Computer Science
Theodore Dowling, Nuclear Science/Engineering
Ryan Schmitt
Rose Holtz, Nuclear Science/Engineering
Mark Hill, Emergency Management
Leigh Emerson, Emergency Management
Jaron Ricks
Duke Henningsen, Technology Management
Tony Rossi
James Cripps, Industrial Technology
Monica Nevarez, Technology Management
Chere Morgan, Technology Management
Sagan Lewis, Industrial Technology
Kevin Sumrell, Industrial Technology
Dee Rasmussen
Anne McCartin, Nuclear Science/Engineering
Cora Wild
Shayly Wasylow, Industrial Technology
Joseph James, Fire Services Administration
Daniel Kennedy, Engineering Management
Cody Grover, Computer Science
Joel Detonancour,
Curt Hein
Matthew Frost
Jesse Howard
Charlie Lawrence
Erin Eddins, Physics
Jay Bischoff
Sheldon Christensen
Keith Hughes
Jerry Robertson
Sheldon Christensen, Industrial Technology
Bryan Anderson, Engineering Management
Aaron Taylor
Monica Dudenhoeffer
Scott Packard
Jared Winterbottom, Industrial Technology
Blake Taylor, Industrial Technology
Jared Hibbert, Industrial Technology
Scott Packard, Industrial Technology
Todd Leavitt, Industrial Technology
Daniel Lindberg, General Studies
Jeffrey Anderson
Brandon Macdonald, Applied Science
Leann Tuckett, Environmental Science
Seth Ashby, Industrial Technology
John Poole
Ryan Archibald, Industrial Technology
Ronald Kraushaar, General Studies
Jadin Frongner, Fire Services Administration
Kelly Williams
Jesse Jacobs, Industrial Technology
Robert Gomez, Industrial Technology
Richard Leavitt
Matthew Jones, Chemical Engineering
Francine Rice, Nuclear Science/Engineering
Jason Schulthess, Nuclear Science/Engineering
Audrey Garrett
Justin Walters, Industrial Technology
David Tolman, Engineering Management
Timothy Andersen, Workplace Training & Leadership
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Nathan Jorgensen, Technology Management
Cody Rountree, Industrial Technology
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Michael Sweet, Industrial Technology
Daniel McMurphy, Engineering Management
Stetson Hale, Technology Management
Robert Beason
Scott Jeffery
Shad Staples
Luke Galloway, Computer Science
Joseph Allen
Carwin Hendricks, Technology Management
University of Pennsylvania - Wharton
Jay Disser, Business Administration/Management
University of Phoenix
Rian Kotter, Business Administration/Management
University of South Carolina
Kyle Gamble, Nuclear Science/Engineering
Utah State University
Mark Bronson, Business Administration/Management
Ryan Stucki, Business Administration/Management
Utah Valley University
Brittany Kochel, Business Administration/Management
Utah Valley University
Samuel Thomas, Applied Science
Washington State University
Ryan Weeks, Chemistry
Western Governors University
Terrance McKay, Information Technology
Western Governors University
Kryci Kempkers, Accounting
Western Governors University
Anson Hall, Business Administration/Management
Angela Casper, Business Administration/Management
Ryan Norman, Industrial Technology
Steven Daniels, Industrial Technology
Tyson McMurtrey, Business Administration/Management
Michael Cannon,Business Administration/Management

INTERNS (331)

American Sentinel University
Marina Meier, Geographic Information Systems
Auburn University
Fabio Seibel, Materials Engineering
Beloit College
Leslie Wright, English
Boise State University
Kassiopeia Smith, Material Science & Engineering
Mary Weathersby, Accounting
Lucas Nukaya-Heady, Materials Engineering
Casey Hergesheimer, Mechanical Engineering
Bonneville High School
Lindsey Kvarfordt, General Studies
Justin Hales, General Studies
Brigham Young University - Idaho
Jonathan Valencia, Computer Information Technology
Olivia Oxborrow, Accounting
Jeffery St. Jeor, Biological Sciences
Jared Allen, Mechanical Engineering
Tanner Anderson, Physical Sciences
Ruby Kelyn Munoz, Biological Sciences
Chaston Ellis, Biological Sciences
Lisa Mitchell, Mathematics
Katherine Panike, Biochemistry
Matthew Dee, Mechanical Engineering
Sean Dixon, Computer Engineering
Catherine Roebuck, Computer Information Technology
Addison Yancey, General Studies
Corey Brazell, Physical Sciences
Axel Alcocer Seoane, Physical Sciences
Sarah (Danielle) Anderson, Applied Mathematics
Katie Larson, Applied Mathematics
Hunter Oakey, Computer Information Technology
Rachael Hill, Psychology
John-Michael Bradley, Physics
Abigail Davis, Applied Mathematics
Jared Tolliver, Physics
Zach Larson, Mechanical Engineering
Kyle Shaw, Applied Mathematics
Malachi Tolman, Nuclear Engineering
Andrew Lang, Accounting
Derek Holubar, Accounting
Alex Galbraith, Business Management
Samuel Beck, Mechanical Engineering
Caden Fuhriman, Civil Engineering
Chauncey Holt, Mechanical Engineering
Carson Stronks, Construction Management
Kaileen Peck, Biology
Colton Randall, Biology
Michael Lynn, Welding Engineering
Alexander George, Physical Sciences
Caitlin McNamara, Communications
David Theriault, Web Design Development
Brandon Hill, Mechanical Engineering
Michael Craig Anderson, Computer Information Technology
Kenneth Larsen, Computer Information Technology
Porter Zohner, Computer Science
Brigham Young University - Provo
Alexander Rasmusson, Physical Sciences
Jordan Argyle, Mechanical Engineering
Richard Fitzhugh, Chemical Engineering
Jacob Ladd, Chemical Engineering
John Peterson, Physics
Mariah Welch, Sociology
California Polytechnic University
Justin McAlister, Biochemistry
Mikel Sangroniz, Environmental Engineering
California State University
Karen Kursteiner, Computer Sciences
Century High School
Ian Stites, General Studies
Cade Roske, General Studies
College of the Desert
Jessica Vega, Physical Sciences
College of Western Idaho
Naomi Hazelip, Computer Information Technology
Colorado School of Mines
Alan Carter, Materials Engineering
Ty Porter, Materials Engineering
Matthew Rehberg, Chemical Engineering
Douglas Smith, Metallurgical Engineering
Danielle Barna, Chemical Engineering
Russell Jarmer, Physics
Cornell University
Laura Sinclair, Chemical and Biomolecular Engineering
Cornell University
Lauren Boldon, Mechanical Engineering
Durham University
Samuel Westlake, Mathematics
Eastern Idaho Technical College
Jay Hix, Instrumentation Technology
Ecole Nationale Superieure des Mines de Paris
Valentin Drouet, Nuclear Engineering
Charles Leduc, Nuclear Engineering
Ecole Polytechnique
Simon Pirmet, Nuclear Engineering
Embry-Riddle Aeronautical University
Weylin MacCalla, Computer Engineering
Kari Slotten, Engineering Physics
Florida State University
Julian Osorio-Ramirez, Geology
Florida State University
Shawn Stone, Computer Science
Franklin Central High School
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Georgetown University
Caitlin Beattie, Physical Sciences
Georgia Institute of Technology
Alexander Moore, Nuclear Engineering
Timothy Flaspoehler, Nuclear Engineering
Georgia State University
Salene Rowe, Chemistry
Gonzaga University
Jamie Cookson, English
Hillcrest High School
Taylor Child, General Studies
Idaho Falls High School
Daryl Giglio, General Studies
Idaho State University
Gabrielle Styhl, Psychology
Jacob Lehmer, Nuclear Engineering
Taylor Matthias, Mechanical Engineering
Jerron Berrett, Mechanical Engineering
Larinda Nichols, Nuclear Engineering
Cody Race, Nuclear Engineering
Sage Thibodeau, Mechanical Engineering
McKenzie Whitesides, English
Mary Toston, Nuclear Engineering
Luca Beveridge, Nuclear Engineering
Robin Baker, Nuclear Engineering
Andrew Maas, Nuclear Engineering
Ted Baker, Mechanical Engineering
Kevin Tsai, Physics
William Alston, Physics
Mark Wetzel, Physics
Zachary Packer, Business Management
Tara Justesen, Accounting
Scott Haderlie, Accounting
Samantha Phillips, Nuclear Operations
Jesse VanKirk, Nuclear Operations
Matthew Beatty, Nuclear Engineering
Bryce Brasher, Electrical Engineering

Jacob Ivie, Instrumentation Technology
Jed Otto, Electrical Engineering
Brandon Wavra, Electrical Engineering
Kaitlyn Johnson, Art and Business
Joseph Pehrson, Art and Business
Nolan Crone, Computer Science
Whitney Moore, Psychology
Korbin Traughber, Nuclear Engineering
Konnor Gilstrap, Instrumentation Technology
Sean McClellan, Instrumentation Technology
Taylor Mantei, Electrical Engineering
Laura Newman, Drafting
Marko Sterbentz, Computer Science

Irvine Valley College
Alex Wong, Physics

Kansas State University
Michael Reichenberger, Mechanical Engineering

Kansas State University
Sarah Stevenson, Mechanical Engineering

Lewis-Clark State College
Rachel Spencer, Business Administration

Madison High School
Justin Palmer, General Studies

Manhattan College
Olivia Mason, Chemical Engineering

Massachusetts Institute of Technology
Miaomiao Jin, Nuclear Engineering
Alexandra Delmore, Nuclear Engineering
Micah Gale, Nuclear Engineering

Michigan State University
Jordan Lee, Geology

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Charles Jouglard, Nuclear Engineering

Mississippi State University
Max Moseley, Communications

Missouri University of Science and Technology
Monica Gehrig, Nuclear Engineering

Missouri University of Science and Technology
Jacob Bair, Materials Science
Shaikat Galib, Nuclear Engineering
Fahima Islam, Nuclear Engineering

Montana State University
Dylan Glenn, Mechanical Engineering
Alex Schoonen, Chemical Engineering
Thomas O'Brien, Mechanical Engineering
Alec Pinero, Construction Management
Matthew Solle, Mechanical Engineering
Annie Voast, English
Maureen Chorney, Metallurgical Engineering
Zach Hellegaard, Materials Engineering
Logan Stephens, Materials Engineering
Laura Twichel, Occupational Health and Safety
Emily Sherman, Industrial Engineering
Layne Conner, Electrical Engineering

New Mexico Institute of Mining & Technology
Sean Salinas, Computer Science

North Carolina Central University
Yesenia Velasco, Computer Science

North Carolina State University
William Harris, Chemical Engineering
Joseph Cambareri, Nuclear Engineering
Nicholas Herring, Nuclear Engineering
Han Bao, Nuclear Engineering
Cameron Brown, Nuclear Engineering
Yangmo Zhu, Nuclear Engineering
Lin Linyu, Nuclear Engineering
Payel Chatterjee, Civil Engineering
Alexander Pharr, Nuclear Engineering
Jasrah Stephenson, Statistics
Ahmed Aly, Nuclear Engineering
Pedram Ghassemi, Nuclear Engineering
Zachary Morey, Nuclear Engineering

Ohio State University
Michael Jindra, Chemical Engineering
Claudia Picoco, Nuclear Engineering
Michael Pietrykowski, Nuclear Engineering
Minghui Chen, Nuclear Engineering
Doug Hardtmayer, Welding Engineering
Nick Gladfelter, Computer Science
Anthony Alberti, Nuclear Engineering
Adam Zabriskie, Nuclear Engineering
Jackson Harter, Nuclear Engineering
Karl Britsch, Nuclear Engineering
Ariana Foley, Nuclear Engineering
Thomas Holschuh, Nuclear Engineering
Christian Buesch, Materials Science
Bjorn Westman, Nuclear Engineering
Matthew Zakrevsky, Computer Science

Pennsylvania State University
Thomas Heron, BioRenewable Systems
Rittu Raju, Mechanical Engineering
Pascal Rouxelin, Nuclear Engineering
Ana Jambrina Gomez, Nuclear Engineering
Faith Beck, Mechanical Engineering
Bryan Egner, Nuclear Engineering

Pocatello High School
Chase Freeman, General Studies

Politecnico di Milano
Andrea Castellano, Nuclear Engineering
Tommaso Barani, Nuclear Engineering
Davide Pizzocri, Nuclear Engineering

Polytechnique Montreal
Alexandre Laurier, Nuclear Engineering

Portland State University
Harvey Hembree, Geology

Purdue University
Xin Zhao, Financial Economics
Karim Elsayed Ahmed, Nuclear Engineering
Sudipta Biswas, Aerospace Engineering
Hao Wang, Materials Engineering
Clive Herbert Townsend, Nuclear Engineering

Rensselaer Polytechnic Institute
Jaron Senecal, Nuclear Engineering

Ririe High School
Kyler Egan, General Studies

Rutgers the State University of New Jersey
Edmund Han, Materials Engineering

RWTH Aachen University
Marija Stevic, Electrical Engineering

Skyline High School
Naomi Hilton, General Studies
Brady Corrigan, General Studies
Rachel Kelly, General Studies
Miranda Wachs, General Studies

St. Olaf College
Anna Mattson, Chemistry

Suffolk County Community College Ammerman Campus
Lucia Mallozzi, Physical Sciences

Texas A&M University
Hannah Moore, Nuclear Engineering
Jonathan Scherr, Nuclear Engineering
Joshia Smith, Nuclear Engineering
Andrew Franklin, Nuclear Engineering
Hans Hammer, Nuclear Engineering
Jijie Lou, Nuclear Engineering
Weixiong Zheng, Nuclear Engineering
Mason Childs, Nuclear Engineering
Cody Orsak, Nuclear Engineering
Kelsey Kinley, Public Heath

Texas Technical University
Jason Green, Computer Engineering

University at Buffalo
Vivek Kote, Civil Engineering

University of Alabama
Kaitlyn Somazze, Chemical Engineering

University of Arizona
Yile Hu, Mechanical Engineering

University of Arkansas
Vikash Mishra, Mechanical Engineering

University of California - Berkeley
Ken Lim, Chemical Engineering
April Novak, Nuclear Engineering
Joshua Rehak, Nuclear Engineering
Erin Marie Gantz May, Chemistry

University of California - Irving
Andy Jackson, Chemistry

University of California - Merced
Kalvin Ogbuefi, Mathematics

University of California - Santa Barbara
Pedro Da Silva, Chemical Engineering

University of Connecticut
Lukasz Kuna, Physics

University of Florida
Alexander Mausolff, Nuclear Engineering
Jhonathan Rosales, Nuclear Engineering
Janine Lambert, Nuclear Engineering
Zachary Weems, Physics

University of Georgia
Jillian Maloney, International Affairs

University of Idaho
Sean McCarthy, Accounting
Mary Ellen Case (Mincher), Chemistry
Jared Lacroix, Biology
Bethany Kersten, Chemical Engineering
Leilani Beard, Environmental Science
Brendi May Heath, Environmental Science
Nathan Davis, Electrical Engineering
Payton McGriff, Communications
Jivan Khatry, Nuclear Engineering
Lei Tu, Nuclear Engineering
Richard Skifton, Mechanical Engineering
Kateryna Savchenko, Psychology
Thomas Anthony Ulrich, Neuroscience
Keith Drew, Computer Science
Matthew Dieckmann, Mechanical Engineering
Kamshad Eshghi, Electrical Engineering
Quinton Reese, Mechanical Engineering
Sobhan Patnaik, Materials Engineering

University of Illinois - Urbana Champaign
Kathryn Mummah, Nuclear Engineering
Guojun Hu, Nuclear Engineering
Weicheng Zhong, Nuclear Engineering
Ozgun Numanoglu, Civil Engineering

University of Massachusetts
Daniel Shy, Physics

University of Michigan
Nathan Wood, Chemical Engineering
Aaron Tumulak, Nuclear Engineering
Jesse Bradfield, Nuclear Engineering
Charles Sosa, Nuclear Engineering
Sara Palmerton, Environmental Engineering
Matt Neumann, Nuclear Engineering

University of Mississippi
Jordan Chambers, Mechanical Engineering

University of Nevada - Las Vegas
Jason Richards, Radiochemistry
Daniel Mast, Radiochemistry

University of New Hampshire
Mitchell Juneau, Chemical Engineering

University of New Mexico
Alvaro Gonzalez, Nuclear Engineering
Kyle Beling, Nuclear Engineering
Japan Patel, Nuclear Engineering
Paul Talbot, Nuclear Engineering
David Weitzel, Nuclear Engineering
Matthew Ryals, Nuclear Engineering
Brittany Umbrage, Nuclear Engineering
Jonathan Paz, Nuclear Engineering
Luis Quinones, Nuclear Engineering
Bobbi Merryman, Nuclear Engineering
Nicholas Osterhaus, Nuclear Engineering
Elliot Sondheim, Construction Management
Katelyn Morales, Communications

University of Oklahoma
Michael Janis, Petroleum Engineering

University of Rome
Paolo Balestra, Energy Engineering

University of South Alabama
Joel Dawson, Computer Science

University of Southern California
Brian Franz, Astronautical Engineering
Adamu Kadiri, Health Physics Engineer
Juha Nieminen, Astronautical Engineering

University of Texas
Samuel Johnson, Mechanical Engineering

University of Tulsa
Garrett Larsen, Computer Science

University of Utah
Jacob Bradford
Jan Goral, Mining Engineering
Matthew Lund, Nuclear Engineering
Daniel Maljovec, Computer Science
Joseph Levinthal, Nuclear Engineering
Christopher Becker, Computer Science
Christian Weinrich, Biology
Lea Vanderlinden, Mechanical Engineering
Kyleigh Hatch, Mechanical Engineering

University of Washington
Justin Arbogast, Mechanical Engineering

University of Wisconsin
Andrew Petti, Computer Science
Benjamin Hauch, Nuclear Engineering

University of Wyoming
Alexandra Garcia-Poulsen, Biological Sciences
Jonathan Pullum, Physical Sciences
Rajiv Khadka, Computer Science

Utah State University
Katelyn Allison, Business Administration
Chris Martinez, Mechanical Engineering
Jayden Zundel, Mechanical Engineering
Joshua Hodson,
Raymon Hardy, Computer Information Technology
Benjamin Vegel, Mechanical Engineering
Ryan Wray, Materials Science
Kaitlin Loosle, Public Heath
Katie Whitmore, Communications
Eric Green, Electrical Engineering
Ruger Hansen, Mechanical Engineering
Ethan Nickerson, Mechanical Engineering
Trevor Atkinson, Geology
Justin Cox, Computer Engineering

Virginia Commonwealth University
Rachel Waxman, Nuclear Engineering
Jason Scott, Mechanical Engineering
Garon Morgan, Mechanical Engineering

Virginia Polytech Institute & State University
Meng-Jen Wang, Nuclear Engineering

Washington State University
Stephanie Pitts, Mechanical Engineering

Weber State University
Jacob Nolan, Electrical Engineering
Jarin French, Physical Sciences
Andrew Kuznicki, Electrical Engineering

PRACTICUM (18)

Eastern Idaho Technical College
Blade Albertson, Radcon
Levi Tessier, Radcon
Mackenzie Tracy, Radcon
Remington Wren, Radcon
Roman Zarate, Radcon
Ashley Rightler, Radco
Brook Baldwin, Radcon
Geoffrey Glissmeyer, Radcon
Sean Kanter, Radcon
Rachele Mock, Radcont
Steven Nielsen, Radcon
Stanley Cherry, Radcon
Michael Carey, Radcon

University of Utah
Rex Spencer Watson, OMP
Sarang Kim Yoon, OMP
Charles Prezzia, OMP
German Ellsworth, OMP
David Boren, OMP

ACADEMIC VISITORS (8)

Boise State University
Bryan Forsmann,

Brigham Young University - Idaho
Evan Hansen

Colorado School of Mines
Jeffrey King

Eastern Idaho Technical College
Mahlon Heileson

University of Texas
Frederick Todd Davidson
Josh Rhodes

Weber State University
Fred Chiou
Christian Hearn

FACULTY RESEARCHERS (2)

University of Delaware
Boncelet Jr., Charles

Washington State University
Srivastava, Anurag

TEAMING TEACHERS (1)

Technical Careers High School
Amy Talbot

POSTDOCS (41)

Aalborg University
Bishnu Bhattarai, Energy Technology

Arizona State University
Hailong Chen, Mechanical Engineering

California Institute of Technology
Swetha Veeraraghavan, Civil Engineering

Duke University
Wen Jiang, Mechanical Engineering

Florida State University
Yusheng Luo, Mechanical Engineering

Idaho State University
Edna Cardenas, Applied Physics

Iowa State University
Jun Chen, Electrical Engineering

Lehigh University
Soe Lwin, Chemical Engineering

Michigan Technological University
Jordan Klinger, Mechanical Engineering
Wei Zhang, Cognitive Science

Missouri University of Science and Technology
Muhammad Abir, Nuclear Engineering

Ohio University
Luis Diaz Aldana, Chemical Engineering

Purdue University
Congjian Wang, Nuclear Engineering
EfeKurt, Civil Engineering
Karim Elsayed Ahmed, Nuclear Engineering

Seoul University
Su-Jong Yoon, Nuclear Engineering

Texas A&M University
Joshua Hansel, Nuclear Engineering
Jun Soo Yoo, Nuclear Engineering
Cheng Sun, Materials Science

University at Buffalo
Chandrakanth Bolisetti, Civil Engineering

University of California - Davis
Haiming Wen, Materials Science

University of California-Berkeley
Erin Gantz May, Radiochemistry

University of Colorado
Birendra Adhikari, Mechanical Engineering

University of Houston
Keshav Shrestha, Condensed Matter Physics

University of Idaho
Donna Baek, Chemistry
Clemente Parga, Nuclear Engineering

University of Iowa
Vaibhav Yadav, Mechanical Engineering

University of Memphis
Blaine Bockholt, Geophysics

University of Nevada
Daniel Antonio, Physics

University of North Texas-Denton
Subhashish Meher, Materials Science

University of Saskatchewan
Chinmoy Baroi, Chemical Engineering

University of South Carolina
Weijian Diao, Chemical Engineering

University of Texas
Jong Suk Kim, Chemical Engineering

University of Utah
Alex Abboud, Chemical Engineering
Gorakh Pawar, Mining Engineering
Jing Zhou, Chemical Engineering

University of Wisconsin
Robert Carlsen, Nuclear Engineering

Utah State University
Bradley Wahlen, Biochemistry

Washington State University
Thuy "Ruby" Nguyen, Environmental Science
Colt Heathman, Radiochemistry

West Virginia University
Damon Hartley, Forest Research Science

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