



# Postdoctoral Career Fair

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## *Exhibiting Company Profiles*

Welcome to the Argonne National Laboratory Postdoctoral Career Fair! Argonne's rich science and engineering environment, top postdoctoral talent, together with the leaders in industry provides the perfect opportunity to network and jump start your career. This brochure provides snapshots of participating companies. Stop by each booth and learn more about how your expertise may match the needs of our industry partners.

*September 21, 2012*

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Do you really know all about Argonne's career opportunities? Just come and talk to us! Argonne provides many ways for researchers from academia, industry and other government laboratories to work with our staff and gain access to our facilities for collaborative or proprietary research. Every year, Argonne staff collaborate with dozens of researchers from industry and hundreds from academia and other national laboratories.

[www.anl.gov](http://www.anl.gov)



A global chemical company and France's leading chemicals producer, Arkema is building the future of the chemical industry every day. Deploying a responsible, innovation-based approach, we produce state-of-the-art specialty chemicals that provide customers with practical solutions to such challenges as climate change, access to drinking water, the future of energy, fossil fuel preservation and the need for lighter materials. With operations in more than 40 countries, 14,000 employees and eight research centers, Arkema generates annual revenue of €5.8 billion and holds leadership positions in all its markets with a portfolio of internationally recognized brands. The world is our inspiration.

<http://www.arkema-inc.com>



Bridgestone Americas Center for Research and Technology is a state-of-the-art facility staffed with a multidisciplinary team of highly-trained and experienced scientists from different countries operating under an organizational structure which promotes an ongoing and boundary-free interaction among staff members. We work cooperatively with scientists and engineers from our three major Technical Centers located in Akron, Tokyo and Rome. In addition we collaborate with leading scientists of different universities and governmental laboratories in our quest to understand the important phenomena confronting us in our daily work. The Center has the reputation of being one of the leading laboratories in the world in the field of polymers. It has a rich history and can look back at many accomplishments.

<http://www.ba-thecenter.com>



**New Venture Challenge**

Launched in 1996, the Edward L. Kaplan, '71, New Venture Challenge (NVC) is one of the nation's premier business competitions, allowing students to act upon their entrepreneurial ideas within a supportive and highly rewarding environment. Just one of the many ways the Polsky Center for Entrepreneurship fosters hands-on learning, the NVC program has expanded to include social

and global challenges. Since its inception, the NVC has helped launch more than 80 companies, which have gone on to raise more than \$242 million in equity capital and create over 1,000 jobs.

The NVC process includes two phases and a finals competition. Please see the calendar for important events and deadlines. Typically, 60 to 90 student teams submit ideas for the competition. The NVC engages more than 100 experienced professionals who serve as judges and individual mentors during the classroom phase and finals competition. The contributions by the judges and mentors are invaluable to the students who participate in the conversation.

<http://research.chicagobooth.edu/nvc/>



For more than 200 years, DuPont has brought world-class science and engineering to the global marketplace through innovative products, materials and services. Our market-driven innovation introduces thousands of new products and patent applications every year, serving markets as diverse as agriculture, nutrition, electronics and communications, safety and protection, home and construction, transportation and apparel.

Today, DuPont is proud to build on this heritage by partnering with others to tackle the unprecedented challenges in food, energy and protection now facing our world. With global population expected to approach nine billion by 2050, DuPont is working with customers, governments, NGOs and thought leaders to discover solutions to today's toughest challenges. Together, we believe we can provide enough healthy food for people

everywhere, decrease dependence on fossil fuels, and protect people and the environment for generations to come.

We look forward to what a third century of science and innovation can do.

<http://www2.dupont.com>



Elevance is the first company to successfully bridge the renewables and chemicals industries, transforming natural plant-based oils, like soybean, rapeseed (canola), palm, corn and jatropha or algae, into specialty high-performance, cost-effective commercial products. Our experienced team applies the physical sciences and formulation technology with process knowledge and deep customer relationships to commercialize renewable products. Like our symbol the bee, we repurpose nature's own compounds to create renewable solutions for: Performance waxes and candles, Personal care products, Detergents and cleaners, Naturally derived antimicrobials, Lubricant base oils, Advanced biofuels, Additives for lubricants and fuel.

Our Nobel-prize winning and patent-protected technology unlocks nature's bounty, creating cleantech solutions using locally available renewable feedstocks. Synthesized with greater efficiency, our natural oil compounds offer superior performance at a lower cost. As the leader in transforming natural, renewable oils into high-performing specialty products and materials, Elevance is uniquely positioned to meet consumer demands. By leveraging our technology and collaborating with our partners, we are accelerating and transforming the renewables and chemical industries.

<http://www.elevance.com>



Fusion Technology LLC's mission is to be the choice partner supporting the U.S. Government's effort for national security and public safety by providing superior IT solutions at the best value. Our company strives to create superior customer satisfaction by providing cutting edge technology, industry best practices, and experienced professionals. Fusion Technology LLC uses its engineering processes to solve problems of vital importance to the nation and the world in the national law enforcement community, biometrics community, and military applications. The company's employees serve customers in the Department of Justice and Department of Defense. Fusion Technology LLC offers its customers an extensive variety of custom IT and engineering solutions. With the use of cutting edge technology, progressive experienced professionals, and industry best practices, Fusion Technology LLC can improve your IT business processes.

<http://www.fusiontechnology-lc.com>



Larry Page, our co-founder and CEO, once described the "perfect search engine" as something that "understands exactly what you mean and gives you back exactly what you want." Since he spoke those words Google has

grown to offer products beyond search, but the spirit of what he said remains. With all our technologies—from search to Chrome to Gmail—our goal is to make it as easy as possible for you to find the information you need and get the things you need to do done. It means making our products work intuitively, so that you can share documents with Gmail contacts without having to copy and paste, and open the same tabs on your Android phone that you have open on your Chrome browser on your desktop. Above all, it means making our products work better so that people can spend time on the stuff they're good at—like enjoying time with family, camping in the wilderness, painting a picture or throwing a party. We're not there yet, but we're working on it.

It's really the people that make Google the kind of company it is. We hire people who are smart and determined, and we favor ability over experience. Although Googlers share common goals and visions for the company, we hail from all walks of life and speak dozens of languages, reflecting the global audience that we serve. And when not at work, Googlers pursue interests ranging from cycling to beekeeping, from frisbee to foxtrot.

<http://www.google.com/about/jobs/>



The Higher Education Recruitment Consortium (HERC) was founded in the spring of 2000 by colleges and universities in Northern California that were seeking ways to collaborate on addressing faculty and staff dual career and employment outreach challenges on their

campuses. The resulting Northern California HERC has been viewed as a best practice by colleges and universities in other U.S. regions and since 2004, HERCs have developed in several other regions. One of the regional HERCs primary functions is to maintain regional, web-based search engines that include listings for all job openings, both faculty and staff, at all member institutions. The services at the websites are available at no charge to anyone seeking employment in higher education. The centrality of job postings and regional resources as well as the website's ability to accommodate dual career searches distinguishes HERC from other employment websites. Regional HERCs also hold regular meetings for human resources and faculty affairs administrators to encourage the sharing of information, resources, and best practices that support member institutions in attracting outstanding and diverse faculty, administrators, and staff.

In the spring of 2007, HERC established a national organization to help support the mission and objectives of the regional HERCs. The mission of the National HERC is to facilitate national strategic initiatives that help the regional HERCs accomplish their goals and to promote HERC-wide visibility.

[www.hercjobs.org](http://www.hercjobs.org)



The International Atomic Energy Agency (IAEA) is the world's center of cooperation in the nuclear field. It was set up as the world's

"Atoms for Peace" organization in 1957 within the United Nations family. The Agency works with its Member States and multiple partners worldwide to promote safe, secure and peaceful nuclear technologies.

For many years, the United Nations has faced serious challenges in its efforts to achieve gender equality in staffing, and the IAEA is no exception. In 2007, the IAEA and our Director General approved the Gender Equality Policy to work towards increasing the number of women in the IAEA's Professional and higher categories and to implement gender mainstreaming into its programs. In the last ten years, the percentage of women in these categories has increased from 18% to 24% and we continue to search for and encourage women to consider employment with the IAEA.

Professional staff members of the IAEA comprise a multicultural group of experts, who carry out the programs of the IAEA. Candidates interested in professional posts with the IAEA are expected to have a university degree and appropriate prior work experience in their chosen profession.

<http://www.iaea.org>

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**Institute for Defense Analyses**

More than 50 Years of Analytic Excellence. Conduct rigorous, thoughtful analyses. Institute for Defense Analysis (IDA) traces its roots to 1947, when Secretary of Defense James Forrestal established the Weapons Systems Evaluation Group (WSEG) to provide technical analyses of weapons systems and programs. In the mid-1950s, the Secretary of Defense and

the Chairman of the Joint Chiefs of Staff asked the Massachusetts Institute of Technology to form a civilian, nonprofit research institute. The Institute would operate under the auspices of a university consortium to attract highly qualified scientists to assist WSEG in addressing the nation's most challenging security problems.

IDA allows you to apply the breadth of your knowledge that you have acquired working in complex corporate or government organizations. Here, you can leverage the years of experience in new and challenging ways that have a direct impact on the world around you.

At IDA, our focus is on producing top-notch, objective analyses that helps our customers. As a research staff member, you are given the time to thoroughly investigate some of the most challenging national security issues. Here, you can see the big picture. The analyses you perform affect policies and leading decision-makers within the Department of Defense and beyond. Your experience serves to enhance the full range of talents IDA brings to bear on the work we perform for our sponsors.

<https://www.ida.org>



Johnson Controls is a global diversified technology and industrial leader serving customers in more than 150 countries. Our 162,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings; lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles; and interior

systems for automobiles. Through our growth strategies and by increasing market share we are committed to delivering value to shareholders and making our customers successful. In 2012, Corporate Responsibility Magazine recognized Johnson Controls as the #5 company in its annual "100 Best Corporate Citizens" list.

<http://www.johnsoncontrols.com>



#### **Shape a new era in the mobile industry**

At Nokia, your career and the future of one of the world's most recognizable brands is in your hands. It's an opportunity to build a career you'll be proud of and help create an exciting new chapter in the mobile industry.

#### **What inspires us?**

At Nokia we're excited by the potential of mobile technology to transform people's lives. We're genuinely inspired by people around the world who make the most of the energy, ideas and opportunities offered by a rapidly changing world. Watch our film and find out what motivates us to get out of bed every day.

#### **Thrive in a culture of creativity and openness**

Join a team where everyone makes a difference and everyone is heard. From product innovation to taking a lead in sustainability matters, you'll be free to share ideas and see actions turn into immediate and visible results.

#### **Transform people's lives around the world**

Help make a global difference. Create products and services which can enhance the lives of millions of people in countries where innovation means many different things. We

are driven by a better tomorrow, not just past success. Help us 'think big' and find simple solutions which will radically change the way people live in the future.

<http://www.nokia.com>



Oak Ridge national Laboratory (ORNL) is a multiprogram science and technology laboratory managed for the U.S. Department of Energy by UT-Battelle, LLC. ORNL is located in Oak Ridge, Tennessee, near Knoxville. ORNL's scientific programs focus on materials, neutron science, energy, high-performance computing, systems biology and national security. ORNL also performs other work for the Department of Energy, including isotope production, information management, and technical program management, and provides research and technical assistance to other organizations. The laboratory is home to several of the world's top supercomputers and is a leading neutron science and nuclear energy research facility that includes the Spallation Neutron Source and High Flux Isotope Reactor. ORNL hosts several facilities including: National Center for Computational Sciences, Center for Nanophase Materials Sciences, Center for Structural Molecular Biology, High temperature Materials Laboratory, BioEnergy Science Center, Building Technologies Research and Integration Center, National Transportation Research Center and the Consortium for Advanced Simulation of Light-Water Reactors.

<http://www.ornl.gov/>



Pacific Northwest National Laboratory (PNNL) is one of the U.S. Department of Energy National Laboratories, managed by the Department of Energy's Office of Science and operated by Battelle Memorial Institute. The main campus of the laboratory is in Richland, Washington. PNNL conducts basic and applied research and development to strengthen U.S. scientific foundations for fundamental research and innovation, prevent and counter acts of terrorism through applied research in information analysis, cyber security, and the nonproliferation of weapons of mass destruction, increase the U.S. energy capacity and reduce dependence on imported oil, and reduce the effects of human activity on the environment.

PNNL houses several scientific user facilities and research facilities including: Environmental Molecular Sciences Laboratory, Applied Process Engineering Laboratory, Radiochemical Process Laboratory, Bioproducts, Sciences, and Engineering Laboratory, Electricity Infrastructure Operations Center, Marine Sciences Laboratory, Research Aircraft Facility and Microproducts Institute.

At PNNL we provide the facilities, unique scientific equipment, work on increasing U.S. energy capacity and reduce dependence on imported oil through research of hydrogen and biomass-based fuels and reduce the effects of energy generation and use on the environment.

<http://www.pnnl.gov/>



Spectral Sciences, Inc., a small, employee-owned business dedicated to innovation and excellence in basic and applied research for 31 years. We are a research and development (R&D) company dedicated to solving problems from concept to prototype. SSI has developed many industry standard computer codes as well as unique instrument prototypes to help in the development of cutting-edge technologies for its clients. Research and development areas include remote sensing, atmospheric radiative transfer, combustion science, computational solutions in chemistry, physics and fluid mechanics, molecular modeling, energy management, 3-D and spectral scene modeling, electro-optical signatures analysis, tomographic imaging and development of electro-optical instrumentation to support phenomenological studies and new measurement concepts.

<http://www.spectral.com>



For nearly 100 years, Honeywell's UOP has been the leading international supplier and licensor for the petroleum refining, gas processing, petrochemical production and major manufacturing industries. As a respected pioneer, we are responsible for developing and implementing some of the most useful, original technologies in the world. Today more than 60 percent of the world's gasoline and 85 percent

of biodegradable detergents are made using UOP technology.

Part of Honeywell's Performance Materials and Technologies business group, UOP is equipped to offer the best, most advanced processes, products and services around the world. Over the past 90 years, Honeywell Performance Materials and Technologies has created products that build more comfortable and energy-efficient homes, protect our military troops in the field, make pharmaceuticals more effective and safer for consumption, and help grow more robust and plentiful crops.

We are positioned to help our customers achieve long-term growth by responding to their needs, being highly competitive in all of our markets, and finding solutions to their challenges. Innovation is a driving force behind our growth.

<http://www.uop.com/>



**U.S. AIR FORCE**

## **Air Force Research Laboratory**

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Air Force Research Laboratory (AFRL) is the Air Force's only organization wholly dedicated to leading the discovery, development, planning and executing the Air Force science and technology program and integration of warfighting technologies for our air, space and cyberspace forces. The Laboratory was formed at Wright-Patterson Air Force Base, Ohio as a consolidation of four Air Force laboratory

facilities: Wright, Phillips, Rome, and Armstrong and the Air Force Office of Scientific Research under a unified command. AFOSR's research is organized into three scientific directorates: the Aerospace, Chemical, and Material Sciences Directorate; the Mathematics, Information, and Life Sciences Directorate; and the Physics and Electronics Directorate. The Office of Scientific Research, located in Arlington, Virginia, invests in basic research efforts for the Air Force in relevant scientific areas. This work is performed in cooperation with private industry, academia, and other organizations in the Department of Defense and AFRL Directorates.

<http://www.wpafb.af.mil/AFRL/>



Ware Connections strives to help people, both clients and candidates, be more successful. Our goal throughout the hiring process is to source high performing people and provide them with the environment in which to perform at their highest levels, to the direct benefit of both the candidate and our client company. Our team is comprised of recruiters with experience in research and development engineering, manufacturing, operations, supply chain, finance, sales, product marketing and human resources recruiting. Our positions are for experienced professionals who are in research, engineering, management and operations areas. Ware Connection's focus includes materials research and development engineering, manufacturing, operations, supply chain, finance, product marketing and human resources recruiting.

<http://www.wareconnections.com/>

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