Innovation Crossroads

Starting new companies is a challenge, and start-up funding has declined over the past decade. Innovation Crossroads, supported by the US Department of Energy's Advanced Manufacturing Office and the Tennessee Valley Authority, leverages Oak Ridge National Laboratory's unique scientific resources and capabilities and connects the nation's top innovators with experts, mentors, and professional networks in technology-related fields to take world-changing ideas from research and development to the marketplace.

Empowering Aspiring Entrepreneurs

Through an annual national call, top entrepreneurial-minded innovators are selected to join the two-year program. Participants receive a fellowship that covers living costs and benefits, a travel stipend, a substantial grant for collaborative research and development work at ORNL, and comprehensive assistance to build a sustainable business model.

By embedding the next generation of top technical talent within ORNL, Innovation Crossroads positions entrepreneurial researchers to address fundamental energy, manufacturing, and grid challenges identified by industry.

National lab expertise—ORNL is DOE's largest science and energy laboratory and home to some of the nation's most significant user facilities. Because Innovation Crossroads entrepreneurs work within ORNL, they have access to essential tools and resources immediately. This access reduces cost, risk, and R&D time, allowing researchers to focus on creating the next generation of game-changing technologies.

Multidisciplinary collaboration—Innovation Crossroads participants work with ORNL's renowned scientists and engineers across many disciplines, including biological and environmental sciences, advanced materials, neutron sciences, nuclear science and engineering, and high-performance computing, providing a platform for accelerating innovation.

Business mentoring assistance—Innovation Crossroads has a growing number of partnerships that offer a unique business mentoring experience. Innovators have opportunities to participate in Launch Tennessee's Energy Mentor Network. They are also supported by the University of Tennessee Anderson Center for Entrepreneurship and Innovation and can work with interns from the UT Bredesen Center, who assist with market research and customer discovery. Additionally, each innovator establishes his/her own advisory board and is introduced regularly by Innovation Crossroads staff to potential customers and investors. Other established partnerships provide legal, finance, and accounting assistance to Innovation Crossroads innovators.

Up to a two-year stipend with health and travel benefits

> Comprehensive business mentoring

Substantial R&D funding provided by ORNL, DOE, and TVA

> Our innovators have raised more than \$8 million in funding

Cohort 4 starts in May 2020

"Innovation Crossroads has enabled us to scale our technology at a rapid pace by having access to world-renowned facilities at ORNL and leveraging the knowledge of experts in our field. Without the program we would not be where we are today."

Megan O'Connor, Nth Cycle







Empowering Leaders, Launching Businesses

R&D funding from industry partners supports collaboration opportunities with researchers across ORNL. Innovation Crossroads continues its partnership with the Tennessee Valley Authority to fund additional innovators for Cohort 4.



Cohort 2 Donald DeRose *Eonix*

Shane McMahon Lux Semiconductors

Justin Nussbaum Ascend Manufacturing

Megan O'Connor *Nth Cycle*

Matthew Smith *TCPoly*

Cohort 3

Jesse Claypoole *MantaPoole Technologies*

William Fitzhugh American Nanotechnologies

Hicham Ghossein *Endeavor Composites*

Alex Lewis *Electro-Active Technologies*

Trevor McQueen Neptune Fluid Flow Systems

Leila Safavi **Purist**

Jesse Thornburg *Grid Fruit*

Alumni (Cohort 1)

Anna Douglas *SkyNano Technologies*

Matthew Ellis and Samuel Shaner Yellowstone Energy

Mitchell Ishmael Active Energy

MISYS

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