

ILLINOIS Pathways



HEALTH SCIENCE

Science, Technology, Engineering, and Math (STEM) Learning Exchange

Health Science Cluster includes: planning, managing, and providing therapeutic, diagnostic, health informatics, and support services as well as biomedical research and development.

Merging medical technology and human compassion, the healthcare industry diagnoses, treats, and administers care for the sick. The healthcare industry includes establishments ranging from small-town doctor's offices to busy metro area hospitals that provide thousands of diverse jobs. The healthcare industry includes hospitals, nursing and residential care facilities, physician's offices, dentist's offices, home health care services, and offices of other health practitioners and researchers.

Career Pathways

- Informatics/Health Information Technology
- Biomedical Research & Development
- Therapeutics & Diagnostics
- Support services

Highlights

- As one of the largest industry sectors in Illinois in 2008, healthcare provided 692,000 jobs.
- Healthcare will generate 150,000 new jobs between 2008 and 2018, more than any other sector and double the state average.
- Twelve of the 20 fastest growing occupations in Illinois are healthcare related.



For more information on Illinois Pathways contact Jason.Tyszko@Illinois.gov.

November 27, 2012



STEM Learning Exchanges have been formed for selected career clusters to improve the coordination and delivery of resources, work-based learning opportunities, career guidance, and partnerships that support local STEM programs.

Illinois Pathways is supporting the launch of new and innovative public-private partnerships known as STEM Learning Exchanges. A separate Learning Exchange will be launched in each of the identified STEM areas and will have a lead entity that coordinates a statewide network of businesses, employer associations, education partners, and other stakeholders. These networks will be launched using Race to the Top funding, but will be supported by investments and commitments from public-private partners. The Health Science STEM Learning Exchange will be provided with implementation funds for three years to begin coordinating and delivering support for their career cluster.

Health Science STEM Learning Exchange Implementation Lead Organization:



University of Illinois at Chicago

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The University of Illinois at Chicago (UIC) is home to the largest College of Medicine in the nation. UIC is one of the few U.S. universities with the full complement of health science colleges including: Medicine, Dentistry, Pharmacy, Nursing, Applied Health Sciences, Public Health, and Social Work. UIC has a long history of planning and partnering with entities such as school districts, postsecondary institutions, businesses, industry experts, museums, research centers, and other community partners.

The Health Science STEM Learning Exchange will provide a one-stop virtual location for school districts to access a broad range of e-learning curriculum resources and for students to learn about internships and other work-based learning opportunities. It will also expand student challenges and professional development resources in the Health Science areas. UIC has secured commitments for approximately \$1.5 million in matching contributions for the work of the STEM Learning Exchange. Examples include:

- The iBIO Institute has committed resources to support curriculum development and staffing support for the Learning Exchange.
- Northern Illinois University, Southern Illinois University, and University of Illinois at Chicago have committed curricular resources, staffing support, and access to lab space.

* All applications for lead organizations are subject to change pending negotiations with the Illinois State Board of Education.



Illinois Department of Commerce and Economic Opportunity
 Illinois State Board of Education
 Illinois Community College Board
 Illinois Board of Higher Education
 Illinois Student Assistance Commission
 Illinois Department of Employment Security



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