


ARRA at Work in Minnesota

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ARRA HITECH Workforce Funding and the Involvement of the State of Minnesota



Section 3016: Program of Assistance for University-Based Training


- Purpose:** Rapidly increase the availability of individuals qualified to serve in specific health information technology professional roles requiring university-level training. The six roles targeted by this funding opportunity are:
 - Clinical/Public Health Leader
 - Health Information Management and Exchange Specialist
 - Health Information Privacy and Security Specialist
 - Research and Development Scientist
 - Programmers and Software Engineer
 - Health IT Sub-specialist
- Nine Programs awarded →
- UP-HI = UMN + CSS

| Awardee Institutions |
|--|
| Texas State University |
| University of Minnesota |
| George Washington University |
| Columbia University |
| Johns Hopkins University |
| Oregon Health & Science University |
| University of Colorado Denver College of Nursing |
| Duke University |
| Indiana University |




Section 3016: Community College Consortia

- Purpose:** rapidly create HIT academic programs at Community Colleges or expand existing ones. Each student will be able to complete intensive training in one of six roles within six months or less.
- Roles supported by this program include:
 - Practice workflow and information management redesign specialist
 - Clinician/practitioner consultant
 - Implementation support specialist
 - Implementation manager
 - Technical/software support staff
 - Trainer
- Awardees:**

MN: Normandale Community College


| Region | A | B | C | D | E |
|-----------------------------------|------------------|-------------------------------------|-------------------------------------|------------------------|-----------------------------|
| Lead Awardee of Consortium | Bellevue College | Los Rios Community College District | Cuyahoga Community College District | Pitt Community College | Tidewater Community College |



Section 3016: Curriculum Development Centers

- **Purpose:** To provide funding to institutions of higher education to support health information technology curriculum development. The materials developed under this program will be used by the member colleges of the regional Community College Consortia as well as be available to institutions of higher education across the country.
- **Awardees:**
 - Oregon Health & Science University
 - University of Alabama at Birmingham
 - Johns Hopkins University
 - Columbia University
 - Duke University



Section 3016: Competency Examination Program

- **Purpose:** To provide funding for institutions of higher education to support the development and initial administration of a set of health IT competency examinations. The examinations assess basic competency for two types of individuals who are seeking to demonstrate their competency in certain health IT workforce roles integral to achieving meaningful use of electronic health information:
 - Individuals trained through short-duration, non-degree health IT programs
 - Members of the workforce with relevant experience or other types of training
- **Awardee:** Northern Virginia Community College



University Partnership for Health Informatics (UP-HI)

University of Minnesota – Twin Cities (UMN)
College of St. Scholastica (CSS)
University of Minnesota – Crookston (UMC)

Principal Investigator: Julie Jacko, PhD
Co-Principal Investigator: Terrance Adam, MD, PhD
Co-Principal Investigator: Bonnie Westra, PhD, RN
Principal Investigator at CSS: Marty Witrak, PhD, RN

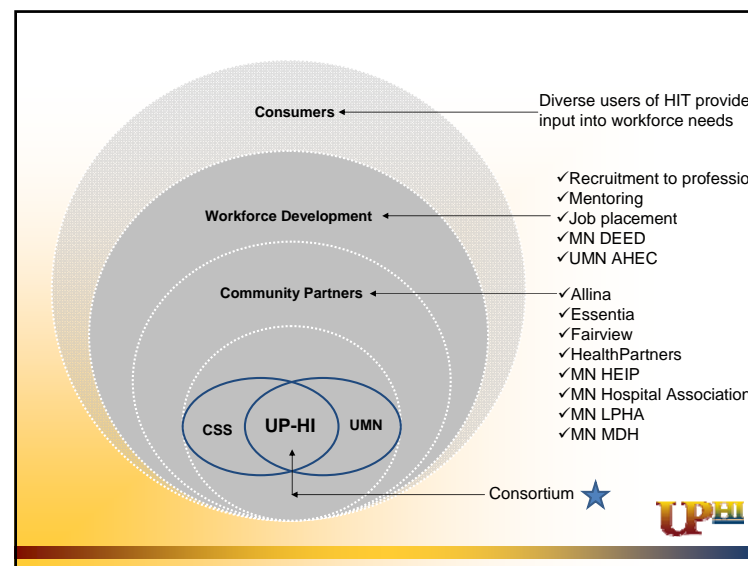
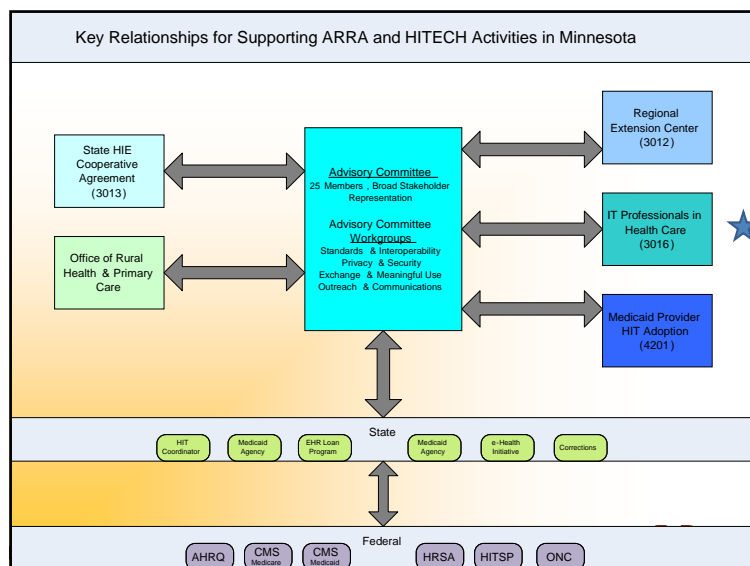


UP-HI Team

- UP-HI Principal Investigator: Julie Jacko, PhD
- UP-HI Co-Principal Investigator: Terrance Adam, MD, PhD
- UP-HI Co-Principal Investigator: Bonnie Westra, PhD, RN
- Principal Investigator at CSS: Marty Witrak, PhD, RN
- UP-HI Community Partners Lead: Andrew Nelson, MPH
- Adel Ali, PhD
- Ron Berkeland, EdD
- Layne Johnson, PhD
- Rui Kang, PhD
- Kathy LaTour, MA, RHIA
- Sandra Potthoff, PhD
- Amy Watters, MA, RHIA



Session 6 – Mobilizing the HIT Workforce through Education and Training Minnesota e-Health Summit 2010



University Partnership for Health Informatics (UP-HI)

- Private-public partnership
- UMN – Twin Cities
 - Institute for Health Informatics
 - School of Nursing
 - School of Public Health
 - Computer Science Department
- UMN – Crookston
 - Software Engineering
 - Applied Health program
- College of St. Scholastica
 - School of Health Sciences
 - School of Nursing



UP-HI Mission

Committed to improving human health and the delivery of health care services, The University Partnership for Health Informatics' mission is to recruit, train, and place university graduates in vital health information technology roles to meet our nation's healthcare workforce needs.



Funding Support

- \$5,145,705 million grant was awarded
- 2nd highest of 9 grants given by ONC
- 3 year funding
- Supports
 - Course enhancement
 - Collaborative activities
 - Tuition for students
 - Community partnership



Advantages of UP-HI

- Collaboration across institutions to provide premier, world-class health informatics education
- Student tuition of up to \$10,000 (some stipends for longer MS programs)
- Web-portal for sharing across schools
- Journal club to exchange ideas
- Work context immersion
- Community-partnership for advice, teaching, mentorship and career placement



| Roles | Descriptions |
|---|---|
| Clinical/Public Health Leader | Lead the successful deployment and use of health IT to achieve transformational improvement in the quality, safety, outcomes, and thus in the value. |
| Health Information Management and Exchange Specialist | Support the collection, management, retrieval, exchange, and/or analysis of information in electronic form, graduates of this training would typically not enter directly into leadership or management roles. |
| Health Information Privacy and Security Specialist | Be qualified to serve as institutional/organizational information privacy or security officers. |
| Research and Development Scientist | Support efforts to create innovative models and solutions that advance the capacities of health IT and conduct studies on the effectiveness of health IT and its effect on health care quality. |
| Programmers and Software Engineer | Serve as architects and developers of advanced health IT solutions. These individuals will be cross-trained in IT and health domains. |
| Health IT Sub-specialist | Combine health care or public health generalist knowledge, knowledge of IT, and disciplines that inform health IT policy or technology. They could be employed in research and development settings, and could serve as teachers. |



Types of Education

- Type 1
 - Typically of one year duration or less, leading to award of an institutional certificate or a master's degree without thesis.
 - Funding up to \$10,000 for informatics courses
 - Funding for 218 (174 certificate, 44 degree) students
- Type 2
 - Typically of a maximum of two years' duration, leading to award of a master's degree with thesis.
 - Up to \$16,000 tuition and mandatory fees, up to \$15,000 stipend, up to \$2,000 in health insurance
 - Funding for 19 degree students



Program Delivery

- Most programs now exist
- Some are in person
- Moving toward primarily web-based courses or mixed model of web and in person
- Programs may have “petitioning” process to opt out of courses based on equivalent education/ experience



Programs by Role in UP-HI

| Academic Entity in UP-HI | Program | Certificate/ Degree |
|--------------------------------------|--|---|
| UMN Institute for Health Informatics | Health Informatics | <ul style="list-style-type: none"> • Master in Health Informatics • Master of Science in Health Informatics (MHI) • Minor in Health Informatics |
| UMN School of Public Health | Public Health Informatics | <ul style="list-style-type: none"> • Preparedness, Response, Recovery Certificate (minor in HI) • MS in Health Services Research, Policy, Administration (minor in HI) |
| UMN School of Nursing | School of Nursing | <ul style="list-style-type: none"> • Post DNP Certificate in Nursing Informatics • Clinical/ Public Health Leader in Health Information Technology |
| UMN Computer Science and Engineering | Computer Science | <ul style="list-style-type: none"> • Masters in Computer Science (minor in Health Informatics) |
| UMN Crookston | Software Engineering Applied Health Program | <ul style="list-style-type: none"> • Health Informatics Minor for Software Engineers • Health Informatics Specialist Certificate |
| College of St. Scholastica | School of Nursing School of Health Sciences | <ul style="list-style-type: none"> • Nursing Informatics Certificate • Health Information Management & Exchange Specialist Certificate • MS in HIM/ HIM Exchange |



Process

- Students admitted to University programs first
 - May choose to enroll in UP-HI based on potential funding and interest
- Apply to UP-HI for tuition support
- First enrollment under UP-HI fall 2010
- Applications accepted June 2010
- Enrollment depends on match between student qualifications and funded slots by program



Funding Eligibility

- Admission into one of the certificate or degree programs under the UP-HI consortium
- Apply for funding under a specific role
- Completion of two essay questions
 - Background in informatics, reason interested in specific role
 - Plans for applying the skills and knowledge from UP-HI education to improve human health and the delivery of health care services?
- Emphasis on public health in addition to clinical, IT, and HIM professionals



Requirements

- Completion of all required courses within appropriate time frames for program
- Participation in journal club
- Participate in feedback and evaluation
- Commitment to applying education to support meaningful use of EHRs and HIT



The screenshot shows the homepage of the University Partnership for Health Informatics (UPHI) website. The URL is <http://www.uphi.umn.edu/>. The page features a navigation menu with links for 'About UPHI', 'Admissions', 'Programs', 'Tools & Training', 'UPHI Partners & Projects', and 'Career Development'. A large 'UPHI' logo is prominently displayed, along with a video player for a 'Watch the UPHI introduction video'. Below the logo, there are sections for 'News & Announcements', 'More Information', and 'Join Our Online Community'. The footer contains contact information for the University of Minnesota, including the address, phone number, and email address.

How Can You Participate?

- Keep informed
- Inform others
- Enroll in a program/ get educated
- Be a community partner
- Volunteer to teach/ mentor
- Notify of career placements available

