UTHealth School of Biomedical Informatics (SBMI)

CLINICIANS HEAL PEOPLE. INFORMATICS HEALS HEALTH CARE.

Our mission is to educate future scientists and professionals in biomedical informatics and health information technology, conduct informatics research to improve health care and advance biomedical discovery and develop advanced informatics tools to solve problems in health care.

1 AND ONLY

Among 51 Biomedical Informatics Programs in the US, UTHealth’s School of Biomedical Informatics is:

- The only program in Texas
- The only free-standing school in the US
- One of the largest in the nation

BIG DATA

The growth of data throughout history

All data created in human history before 2003 equaled 5 Exabytes = 5 x 10¹⁸ Bytes (or the capacity of 1 Billion DVDs)

- This same amount of data was generated in 2 days in 2011
- And was created in 10 minutes in 2013

SBMI FACULTY AND STUDENTS ARE INVOLVED IN MAKING GROUNDBREAKING CONTRIBUTIONS TO HEALTH CARE DELIVERY AND BIOMEDICAL DISCOVERY, INCLUDING:

- INVENTING and evaluating new ways to capture, store, integrate, access, display, utilize, and evaluate health care and biomedical data, information, and knowledge
- INFORMING the relationships between genomics and clinical practice to advance precision medicine
- DRIVING big health data analytics for health care quality and safety
- DEVELOPING analytics for data collected by remote sensors such as the MC10 Biostamp (photo above) that attaches to the skin like a bandage to track patient conditions in real time for early detection and warning
- DISCOVERING new functions for existing drugs and monitoring and detecting adverse events through mining data from electronic health records and medical literature
- USING data to improve health care management
- DEVISING mobile platforms to exchange health information with remote areas
- INVENTING new methods and social interaction tools to promote health prevention and public health

“The opportunities are unlimited. Our vision is to become a biomedical informatics innovator serving Texas, leading the nation and impacting the world.”

– Jiajie Zhang, PhD
Dean and Dr. Doris L Ross Professor, School of Biomedical Informatics, The Glassell Family Foundation Distinguished Chair in Informatics Excellence
6 RESEARCH DOMAINS
• Big Data in Medicine and Health
• Mobile Health
• Precision Medicine
• Population Health
• Healthcare Management
• Cognitive Informatics

50K* WORKERS NEEDED
50K estimated health informatics workers will be needed in the next five to seven years. *(According to the Bureau of Labor Statistics)

7 GRADUATE PROGRAMS
SBMI offers the following Graduate Programs:
3 CERTIFICATE PROGRAMS: Certificate of Health Informatics, Applied Health Informatics, Public Health Informatics
1 MASTER’S PROGRAM: Master of Science in Health Informatics
1 DOCTORAL PROGRAM: Doctor of Philosophy in Health Informatics
2 DUAL DEGREE PROGRAMS: Master’s in Health Informatics / Master’s in Public Health, PhD in Health Informatics / Master’s in Public Health

$2M IN ENDOWED SCHOLARSHIPS

$9,826,944 RESEARCH AND GRANT FUNDING IN FY2014

50% INCREASE IN STUDENT ENROLLMENT
Student Enrollment has steadily grown from 50 students in 2005 to 260 in 2015, and the demand for trained informaticians will continue in the decades to come

1 OF 4
National Centers for Health Information Technology - along with Harvard, Mayo Clinic and UIUC
Working on new ways to capture, store, integrate, access, display, utilize, and evaluate health care and biomedical data, information, and knowledge.

4 Ways to Give
There are many ways to support SBMI’s groundbreaking innovations including:
• Student Scholarships
• Faculty Professorships and Chairs
• Research Funds
• Dean’s Excellence Fund
• One-time gifts and multi-year commitments
• Endowment gifts
• Matching Gifts
• Planned Gifts through your will, retirement plan assets, charitable trusts and charitable gift annuities
• In Honor/In Memory of Tribute Gifts

For more information on how you can support the School of Biomedical Informatics, contact:
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