

## Lehigh Valley Health Network Summer Research Scholar Program 2014

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### Notes:

- Positions are either research or quality improvement projects AND include any ancillary responsibilities as determined by the project mentor.
- Semester standing includes completion of the Spring 2014 semester. For example, at the start of the research scholar program in June, 2014, if have completed two years of college studies, you would be considered a junior.
- Acceptable majors may include similar or comparable majors to those listed for each position.

### Available Positions

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#### **Analysis of COMLEX-USA and USMLE scores in Emergency Medicine Residency Applications**

*Department of Emergency Medicine*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Biology, Pre-medicine, epidemiology, statistics

#### **Robotic surgery education and outreach**

*Gynecologic Oncology*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Any

#### **Scholarly Works Repository**

*Medical Library Services*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Library Science, Writing/Journalism, Law/ Copyright, History of Medicine, Business Management, Information Management

#### **Impact of continuing medical education on physicians' quality of care**

*Division of Education (Continuing Medical Education)*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Education, liberal arts, pre-medicine, life sciences

#### **EPIC integrated medical records systems and corporate training**

*EPIC Team*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Computer science, information technology, education, business

#### **Communication and engagement in chronic disease management and care management initiatives**

*Populytics*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Communication, IT, Health Care Policy or Administration, Nursing, Business

**Fall prevention in older adults**

*Department of Emergency Medicine*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Biology, Pre-Medicine, Epidemiology, Statistics.

**LVHN oral health program**

*Department of Dental Medicine*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-Health Profession, Biology, Chemistry, Natural Science.

**Hospital-based dentistry**

*Department of Dental Medicine*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Pre-Health Profession, Biology, Biochemistry, Chemistry, Natural Science.

**Hospital-based dentistry 2**

*Department of Dental Medicine*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Pre-Health Profession, Biology, Biochemistry, Chemistry, Natural Science.

**Assessment and measurement of awareness and knowledge of network initiatives**

*Organizational Development*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Psychology (I/O), Human Resources, Health Care Administration, Business

**Teaching competencies and impact on medical students**

*Division of Education (Medical Education)*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-medicine, Biology, Biochemistry, Chemistry, Education

**Length of the Second Stage of Labor and Risk of Preterm Delivery in Subsequent Pregnancy**

*Department of Obstetrics and Gynecology, Division of Maternal Fetal Medicine*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Biology, Life Sciences, Chemistry, Mathematics, any liberal arts

**Typologies of personality and its relationship to childhood trauma, self-esteem, and a measure of hopelessness and suicidality**

*Department of Psychiatry*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Psychology, Biology

**Hospital simulation training**

*Division of Education (Simulation Center)*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-medicine, Biology, Biochemistry, Chemistry, Education, Computer Science, Instructional Technology or Health Information Systems degree.

**Application of Toyota Lean Methodology**

*SPPI*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Engineering

**Transformation of primary care practices into patient centered medical homes**

*Department of Family Medicine*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Pre-medicine, Nursing, Psychology, Sociology, Public Health, Public Administration, Healthcare Management

**Retrospective review of cardiac surgery patients, lead extraction patients, and ascending aortic aneurysm resection**

*Heart and Vascular Center*

Number of positions: 2

Minimum required semester standing: Junior

Acceptable majors: life or physical sciences, engineering

**Reorganization of the Burn and Wound Centers**

*Patient Care Services Administration*

*Heart and Vascular Center*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Human Resources, Project Management, Business, Health Care

**Network diabetes quality improvement projects**

*Department of Medicine, Inpatient Diabetes*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Nursing, pre-med, health science, public health, pharmacy.

**Outcomes of patients who have had a TeleID consult vs. transfer to LVH for treatment**

*Telehealth*

Number of positions: 2

Minimum required semester standing: Junior

Acceptable majors: Biology, Pre-medicine, Public Health, Nursing, Pre-Pharmacy

**Analysis of outcomes of patients that received extracorporeal membrane oxygenation (ECMO) as a treatment for the acute respiratory distress syndrome**

*Department of Medicine*

Number of positions: 2

Minimum required semester standing: Senior

Acceptable majors: Biology, Chemistry, Physics, Engineering majors

**Analysis of surgical and operating room procedural variations in order to identify opportunities for standardization.**

*Department of Surgery / Perioperative Health*

Number of positions: 1

Minimum required semester standing: Senior

Acceptable majors: Finance, Accounting, Healthcare Administration, Business

**Design and/or development of learning-based digital simulations through the use of graphic design software and a game-engine-driven virtual world platform**

*Division of Education*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Graphic design, Web design, Computer Science, Instructional Design/Technology, or equivalent

**Optimizing health network operations**

*Administration*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Healthcare Administration or related field

**Impact of a dual enrollment program in healthcare**

*Division of Education*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Education, liberal arts, pre-medicine, life sciences

**Metrics and ROI analyses of medical education programs**

*Division of Education*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Business, engineering, statistics, or related fields

**Obstructive hypertrophic cardiomyopathy undergoing spetal myectomy**

*Department of Surgery*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Biology, Nursing, Premedical, Preprofessional

**Pre-hospital triage of geriatric patients and falls from a standing position**

*Department of Surgery*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-med, Nursing, Pre-professional, Physical therapy, Biology

**Creation of patient skill topics include cervical collars, Thoraco-Lumbo-Sacral Orthosis, and caring for a foley catheter at home**

*Division of Education (Patient Education)*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Graphic art, video/media design, life sciences, liberal arts

**Autopsies and forensic pathology in PA and the future of forensic medicine in Health Network Laboratories**

*Department of Forensic Pathology*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Pre-med, forensic science, biology, chemistry or biochemistry.

**Frequency of three human pathogens in local tick population**

*Department of Infectious Disease*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Biology, microbiology, epidemiology, medical sciences

**Use of feedback from patient comments to encourage improved provider communication**

*Department of Medicine*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Communication, Marketing, Math, Pre-healthcare

**Development and evaluation of video education modules**

*Division of Education (eLearning)*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Graphic art, video/media design, life sciences, liberal arts

**Use of robotic surgery in urology, thoracic, gynecology, and general surgery**

*Department of Surgery*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Biology, chemistry, pre-medicine, health care, nursing

**Medication justification and sensory room evaluation**

*Department of Behavioral Health Science*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Biology, chemistry, pre-medicine, nursing, psychology

**Clinical decision support: perioperative blood conservation**

*Department of Anesthesiology*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-medicine, biology, chemistry, life sciences

**Continuous femoral nerve block: patient satisfaction following total knee arthroplasty**

*Department of Anesthesiology*

Number of positions: 1

Minimum required semester standing: Sophomore

Acceptable majors: Pre-medicine, biology, chemistry, life sciences

**Baby friendly hospital designation research, program, and curriculum development**

*Patient Care Services*

Number of positions: 1

Minimum required semester standing: Junior

Acceptable majors: Nursing, community health, education