Position Specification

Faculty, Cancer Molecular/Genetic Epidemiology

University of Kentucky Markey Cancer Center
Lexington, KY
Reports to: Chunyan He, ScD  
Program Leader, Cancer Molecular/Genetic Epidemiology  
Co-Leader, Cancer Prevention and Control Research Program  
University of Kentucky Markey Cancer Center

Position: Faculty, Cancer Molecular/Genetic Epidemiology  
University of Kentucky Markey Cancer Center

Location: Lexington, KY

POSITION OVERVIEW

The University of Kentucky (UK) Markey Cancer Center (MCC) invites applications for a faculty position at the Assistant or Associate Professor level depending on qualifications. The MCC seeks candidates with expertise in identifying multi-level factors (including genetic, epigenetic and environmental factors) that increase cancer risk or developing biomarkers for cancer outcomes, including prognosis, treatment response/toxicity, and survivorship. Areas of particular interest include, but are not limited to, molecular and genetic epidemiology, pharmacogenetic epidemiology, nutritional molecular epidemiology, and gene-environment interaction. Independent investigators with an established track record of successful extramural grant funding are strongly encouraged to apply.

The MCC is an NCI-designated Cancer Center dedicated to improving the quality of cancer care for the underserved rural and Appalachian Kentucky populations through promoting interactions among basic, clinical, and population investigators in the conduct of multi-disciplinary team science research. The MCC faculty researchers focus on a wide spectrum of research including but not limited to colon cancer risk and genetics, lung cancer risk and environmental exposures, human papilloma virus and cervical cancer, carcinogenic metals and cancer, novel proteins and cancer recurrence, and cancer health disparities. The MCC is rigorously expanding its Cancer Molecular Epidemiology Program. Epidemiology research resources include the NCI SEER Cancer Registry for Kentucky (housed in the MCC), the MCC's excellent shared resource facilities including Biostatistics and Bioinformatics, Cancer Research Informatics, and Biospecimen Procurement and Translational Pathology, and a network of regional offices and community-based coalitions that can facilitate access to populations of interest. The MCC is conveniently located on a single campus with the Kentucky Center for Clinical and Translational Science (CCTS), College of Medicine, College of Public Health, and the other 14 colleges of the University of Kentucky, providing abundant opportunities for cross-disciplinary interaction and collaborations.

QUALIFICATIONS

Applicants should have a doctoral (PhD, ScD or MD with MPH/MS) degree with relevant training or research experience in cancer or molecular/genetic epidemiology. The successful candidate will be expected to develop a vibrant independent research program as well as to participate in collaborative multidisciplinary and translational endeavors pertinent to our mission of reducing cancer incidence and mortality in the catchment area through the identification of risk factors and translation of discoveries into prevention and intervention strategies.

For additional information regarding this position, please contact Corey Lohnes by email at lohnes@grantcooper.com or by phone at (314) 449-1595. To learn more about the Markey Cancer Center, please visit http://ukhealthcare.uky.edu/markey/.
COMPENSATION

Compensation arrangements are competitive and will be commensurate with the selected candidate’s experience and achievements, and the responsibilities of the position. Generous start-up funds and a competitive salary are available.

CANCER PREVENTION AND CONTROL RESEARCH PROGRAM

The Cancer Prevention and Control (CP) Program is on a positive trajectory and has enormous potential to capitalize extensively on the unique catchment population served by the MCC, as well as on the specialized resources that have been developed. The MCC catchment area is defined as the entire state of Kentucky with special emphasis on the 54 counties that make up the Appalachian region of Kentucky. This region consists of 1.1 million of the 4.4 million people living in Kentucky, is 82.3% rural, and a quarter of the population is without a high school diploma and below poverty level. Specific problems in the 41/54 distressed counties in Appalachia include increased cancer rates, smoking, obesity, infection (particularly HPV), and poverty. Cancer burden in Kentucky continues to be substantial, with the state being number one in cancer incidence and mortality for all states with particularly high rates in lung, colorectal, and cervical cancer. The CP program is currently home to 18 funded projects that address the underserved populations in Appalachia. The CP program currently has 29 members (18 research members, and 11 associate members) and three themes:

1. Identify risk factors that contribute to the cancer burden in Kentucky;
2. The development, implementation, and dissemination of intervention strategies, and;
3. To develop population-based methods and measures.

Program Goals

The long-term goal of the CP program is to reduce cancer health disparities with a focus on the rural and Appalachian populations of Kentucky.

1. To identify behavioral, social, cultural, genetic and environmental factors that contribute to the high cancer burden in Kentucky.

   Kentucky has the nation’s highest incidence and mortality rates of lung cancer and colorectal cancer (CRC). Other cancer types such as cervical cancer also have high incidence rates. The CP program research identifies risk factors associated with Kentucky’s excessively high cancer incidence and mortality rates, including smoking, obesity, under-screening, and exposure to environmental carcinogens. Of note, people living in the Appalachian region of Kentucky have elevated levels of arsenic and chromium. Research on how these carcinogenic metals contribute to the high cancer rates is critical to understand and reduce the high burden of the cancer in Appalachian Kentucky. Future direction of this theme is to expand research on population-based studies in catchment to identify genetic, genomic, and environmental risk factors as well as gene-environment interactions.

2. To design, test, implement and evaluate intervention strategies to reduce the cancer burden.

   The focus of this aim is to design, test, implement and evaluate intervention strategies that address specific risk factors (barriers) identified in our catchment area. Research includes intervention studies directed toward health care providers and community-based
intervention studies. CP research efforts on this theme have had a significant impact on policy and practice including smoking intervention, lung cancer control and colorectal cancer screening. Future direction is to enhance intervention research through testing multi-level interventions; incorporating biomarkers in research; and translating genetic and genomic knowledge into precision prevention and intervention.

3. To develop population-based methods and measures that facilitate inter-programmatic cancer research.

Research within this aim focuses on developing methods to obtain complete treatment and biomarker information on all cancer patients in the catchment population, including innovative informatics research that incorporates record linkages to obtain complete treatment and biomarker information on patients reported to the Kentucky Cancer Registry (KCR). The population-based rapid case ascertainment mechanism established as a Virtual Tissue Repository (VTR) at KCR allows the CP investigators to develop multidisciplinary collaborative studies with investigators from other research programs at MCC as well as from other institutions to determine how patterns of treatment and use of biomarkers vary within our catchment area. Future plans are to further develop and apply statistical and informatics tools for more complete data linkage and integration to support clinical and population science research.

ABOUT MARKEY CANCER CENTER

The Markey Cancer Center (MCC) was founded in 1983 and is a dedicated matrix cancer center established as an integral part of the University of Kentucky (UK) and the UK HealthCare enterprise. MCC utilizes the resources of 28 departments, eight colleges, and 150 faculty members throughout UK to further the prevention, treatment, and cure of cancer. In July 2013, MCC was designated by the National Cancer Institute (NCI) to receive research funding and many other opportunities available only to the nation’s best cancer centers. Following that NCI designation, MCC is taking the next step and has applied to be considered a Comprehensive Cancer Center as part of its most recent NCI designation application, submitted in fall 2017.

The clinical programs and services of the MCC are integrated with the UK Albert B. Chandler Hospital. Cancer specialty teams work together with UK Chandler Hospital departments and divisions to provide primary patient care and support services as well as advanced specialty care with applicable clinical trials. All diagnostic services, clinical and pathology laboratories, operating rooms, emergent and intensive care, and radiation therapy services are also provided to cancer patients through UK Chandler Hospital.

The MCC is among the few institutions nationwide providing multidisciplinary care through Clinical Care and Research Teams (CCARTs). Major CCARTs include breast, gynecologic, gastrointestinal, head and neck, lung, brain, hematologic and genitourinary cancers.

From 2012 to 2017, cancer-related research funding at MCC increased from $28.4 million to $42 million, with NCI funding increasing from $10.6 million to $13.1 million. Interventional clinical trials between 2013 and 2017 included 10,084 accruals, 44% of which were from the targeted population in the Appalachian region. Patient visits to the Markey Cancer Center have increased over the past five years; in FY16, there were: 1) more than 90,000 outpatient visits; 2) over 3,300 inpatient stays; 3) more than 25,000 radiation medicine visits; 4) more than 15,000 chemotherapy and infusion visits; and 5) over 1,800 surgical cases.
HISTORY OF THE MCC

The precursor of the current MCC began in 1975 with the formation of the McDowell Cancer Network, a community outreach and education program. An initial P30 Cancer Center Support Grant (CCSG) from the National Cancer Institute was awarded to the McDowell Cancer Network in 1978 (Dr. Mary Sue Coleman, PI), and in 1995, a P20 Cancer Center Planning Grant (Dr. Ken Foon, PI) was awarded to the center. Other noteworthy milestones include establishment in 1990 of the Kentucky Cancer Registry (KCR) within the MCC — no other state statute locates a state registry within a cancer center — as a population-based cancer surveillance program for the Commonwealth of Kentucky. In 2000, KCR was one of only four cancer registries added to the NCI Surveillance, Epidemiology and End Results (SEER) registry for the current total of 14 population-based statewide registries. UK’s NCI-funded five-state Appalachia Community Cancer Network (ACCN) was awarded in 2005 and this year completed its 13th year of work to reduce regional cancer health disparities.

Over the past 15 years, UK Chandler Medical Center has experienced an extraordinary renaissance, leading to dramatic expansion of UK HealthCare’s overall clinical and research infrastructure and operations. Between 2004 and 2015, UK HealthCare has been transformed from the lowest 25th percentile of academic medical centers to the 75th percentile. Over that same period, patient discharges increased 88 percent. At the same time, overall improvements in the quality of care and patient safety led to UK HealthCare receiving the UHC Rising Star Award in 2013 and becoming a national leader in patient safety in 2015. UK HealthCare has four major health care areas (including cancer) that have achieved top 50 national rankings. All of these developments further solidify a rich infrastructure for sustained MCC growth and development. A new $1 billion, 511-bed hospital, which consists of a 1.2 million-square-foot patient care pavilion completed in spring 2011, is the cornerstone project for a 20-year, $2.5 billion plan to create the academic medical research campus of the future. The MCC is one of many beneficiaries of this transformation of UK HealthCare and the clinical and research activities impacted.

A pivotal moment in MCC development was reached in 2009 with the recruitment of B. Mark Evers, MD, a surgical oncologist and nationally recognized physician-scientist who served as Director of the University of Texas Medical Branch Cancer Center. Dr. Evers brought with him a team of more than 35 faculty, postdoctoral fellows, graduate students and research staff to UK, including five established and highly productive cancer investigators who, together with Dr. Evers, introduced 15 new, funded research projects.

Since his appointment as Director of the MCC, Physician-in-Chief of the Oncology Service, and Professor in the Department of Surgery, Dr. Evers received unprecedented institutional, community, and state support to build a cancer center worthy of National Cancer Institute designation. That comprehensive level of support included 26,637 square feet of total space in the Lee T. Todd Building and 16,982 square feet of dedicated cancer research laboratories in the Biomedical Biological Science Research Building. Both of these leading-edge facilities have allowed for increased collaborations and interactions of basic and applied scientists in cancer research areas under the aegis of the MCC.

RESEARCH AT MCC

The MCC is a diverse matrix enterprise with a mission to reduce the morbidity and mortality of cancer through a comprehensive program of cancer research, education, patient care and community outreach. MCC’s research programs span the entire spectrum of cancer epidemiology.
and etiology, molecular expression and regulation, cancer prevention, early detection and treatment. The MCC is organized into four thematic research programs:

- Cancer Cell Biology and Signaling (CS)
- Cancer Prevention and Control (CP)
- Drug Discovery, Delivery and Translational Therapeutics (DT)
- Genomic Instability, Epigenetics and Metabolism (GEM).

MCC has particularly strong research and programmatic ties to the UK Colleges of Pharmacy and Public Health in addition to the oncology departments and divisions of the UK College of Medicine, its primary organizational base.

A principal target of the MCC strategic plan is the movement of advanced treatments into the mainstream of cancer management. The MCC Clinical Research Organization facilitates this process as part of the development and facilitation of clinical trials. The MCC is a full-member institute in multiple cooperative clinical trials groups of the National Cancer Institute, including:

- Alliance (Cancer and Leukemia Group B [CALGB], American College of Surgeons Oncology Group [ACOSOG], and North Central Cancer Treatment Group [NCCTG]).
- Eastern Cooperative Oncology Group (ECOG).
- NRG Oncology (National Surgical Adjuvant Breast and Bowel Project [NSABP], the Radiation Therapy Oncology Group [RTOG], and the Gynecologic Oncology Group [GOG]).
- Pediatric Oncology Group.
- Southwest Oncology Group.
- Clinical Trial Engagement Network.

Research Strengths

The MCC has a rich history and a long-standing commitment to leading-edge research and cancer prevention and control activities that positively impact patient care throughout Kentucky. This commitment dates back to creation of the McDowell Cancer Network in 1975 as an important community outreach/education program. These functions have endured and evolved as core MCC priorities. Together with extensive ongoing transdisciplinary research across all programs, they form the foundation of the cancer center.

- **Transdisciplinary collaboration as a matrix center at a comprehensive research university.** As the “flagship” institution of higher education for the Commonwealth of Kentucky, UK is one of only seven U.S. institutions having a major academic medical center with all six biomedical colleges as well as the Colleges of Agriculture, Engineering, and Law on one central campus. UK has earned over 80 national rankings for academic and research excellence, and research and academic activity spans all 16 colleges and an array of interdisciplinary research centers that are critical to UK's biomedical research enterprise.

The MCC draws its members from the Colleges of Medicine, Public Health, Pharmacy, Arts and Sciences, Engineering, Nursing, Health Sciences, and Agriculture. The MCC is located in the epicenter of this unified university campus; the Chandler Hospital, the College of Medicine, and all other UK colleges surround the MCC. This constellation of disciplines and medical resources enables the MCC to catalyze transdisciplinary cancer research.
MCC leaders have taken maximum advantage of campus strengths to build the cross-disciplinary, intra-collaborative research programs that are the hallmark of NCI-designated Cancer Centers. For example, the MCC Cancer Prevention and Control Program, in which seminal work has been done in the areas of culturally relevant behavioral and screening studies in Appalachian Kentucky, has program members from the Colleges of Public Health, Nursing, Medicine, and Arts and Sciences.

Similarly, the Drug Discovery, Delivery and Translational Therapeutics Program exists as an integrated cooperative effort among prominent oncologists and basic researchers from the College of Medicine, the College of Pharmacy (consistently ranked in the top five pharmacy schools in the nation by US News and World Report), and the College of Engineering. The DT program vision is to understand the unique molecular and phenotypic markers of cancer in Kentucky as well as barriers to accessing care and integrate that knowledge to inform drug discovery, development, and delivery of early phase clinical trial efforts for a hard-to-reach Appalachian Kentucky population.

- **Translational research focused on underrepresented rural populations.** The MCC addresses the critical mission to reduce cancer mortality in Kentucky through a comprehensive program of cancer research, treatment, education, and community engagement with a particular focus on the underserved Appalachian population of Kentucky. The MCC is the only academic cancer center serving the central Appalachian population of eastern Kentucky and western West Virginia, a “distressed” region with significant health problems, including a cancer incidence that is the highest in the U.S.

Major nationally recognized MCC initiatives include funded projects focused on cancer prevention and control and basic research with a focus on lung, colorectal, breast, and cervical cancers. These projects include community-based participatory programs specifically designed to study culturally relevant methods to reduce cancer mortality in challenging populations such as those in Appalachia. Programs in this area capitalize on a bold institutional/state initiative that created the UK Center for Excellence in Rural Health in Hazard, Kentucky, in the heart of central Appalachia.

Located three hours from the main campus, this award-winning UK center is a two-decade long initiative to provide a critically important place-based infrastructure for research, education, and community engagement. The National Rural Health Association has repeatedly recognized the center’s programs and leadership, including a nationally recognized lay health “navigator” program that facilitates work in this remote mountainous region of the state. These health navigators actively collaborate with MCC researchers in implementing a large case-control study on lung cancer.

MCC researchers from the Colleges of Medicine, Public Health, and Nursing have studied the impact of cancer screening and the education/participation of engaged community stakeholders in concert with health professionals and behavioral researchers. Importantly, these projects have demonstrated the effectiveness of community-participatory programs in implementing cancer prevention and control programs in this underserved region. MCC’s leadership in these areas has also forged exceptionally strong alliances through the multi-state Appalachian Community Cancer Network (Kentucky, Ohio, Pennsylvania, Virginia, and West Virginia), which engages community stakeholders and translational researchers at universities with shared interests in cancer disparities in the whole of Appalachia.
The Shared Resource Facilities described in this section are given direct support from MCC. The services offered by these facilities foster and facilitate advances in the prevention, early detection and management of cancer. These combined resources support a broad spectrum of molecular, cellular, animal, human and behavioral/epidemiology studies for advancement of the overall mission of the center.

**Biospecimen Procurement and Translational Pathology Shared Resource Facility**

The Biospecimen Procurement and Translational Pathology Shared Resource Facility (BSTP SRF) collects, processes, and distributes a variety of biospecimens (including tissues, cells, and blood-based specimens) to support translational and correlative research in cancer. The BPTP facility supports the collection of biospecimens both at UK HealthCare and from external sources such as those in Appalachia. The facility’s services include targeted and time sensitive collections, such as intra-operative, rapid fresh tissue collections supporting work in cancer metabolism; the development of novel model systems; review of clinical trials, including investigator-initiated trials, to identify specimen collection needs and develop collection protocols; fresh tissue collections and rapid blood processing for clinical trials.

**Biostatistics and Bioinformatics Shared Resource Facility**

The Biostatistics and Bioinformatics Shared Resource Facility (BB SRF) plays a key role in providing scientific and statistical input for MCC investigators across the basic science, clinical, and population research programs. BB SRF services are categorized broadly into: 1) study planning, power and sample size calculations for grant applications; 2) design and implementation support for clinical trials; 3) statistical analyses, including interim and final analysis for the entire spectrum of cancer research studies; 4) bioinformatics methods for design and analysis of high-throughput ‘omics data; 5) statistical programming for data quality control and data processing; and 6) mentoring, education and general consultation to MCC investigators.

**Cancer Research Informatics Shared Resource Facility**

The Cancer Research Informatics Shared Resource Facility (CRI SRF) develops and applies informatics methods and technologies to enable the advancement of science through the curation
and open investigator access to high quality data from a wide variety of institutional sources. CRI has expanded MCC’s data ecosystem to cover MCC’s entire catchment area of Kentucky through linkages and integration with high quality population-based data from the Surveillance Epidemiology and End Results (SEER) Kentucky Cancer Registry. CRI has established strategic alliances with informatics centers of excellence and national agencies to enhance Kentucky data and to collaboratively develop informatics tools and data standards serving the greater cancer research community.

Flow Cytometry and Cell Sorting Shared Resource Facility

The Flow Cytometry and Cell Sorting Shared Resource Facility (FCCS SRF) has been in continuous operation at UK since 1983 and under the direction of Donald Cohen, PhD, since 1992. The FCCS SRF provides state-of-art flow cytometric services and comprehensive immune monitoring services to support cancer research from all four MCC Research Programs. A variety of flow cytometric services, including multi-parametric cell phenotyping (up to 12 biomarkers simultaneously), allows users to analyze surface and intracellular biomarkers, DNA content, cell cycle, apoptosis and necrosis, cytokine/growth factor synthesis, signal transduction and cell activation. The FCCS SRF also provides comprehensive immune monitoring for human basic and clinical cancer research.

Redox Metabolism Shared Resource Facility

The Redox Metabolism Shared Resource Facility (RM SRF) provides critical services for MCC Research Programs. Notably, the RM SRF is one of only a small number of facilities directly associated with a National Cancer Institute-designated Cancer Center that provides expertise and analyses in oxidative stress, cellular energetics, metabolomics and proteomics in cancer and cancer biology. RM SRF leadership and staff actively participate in the development of new applications and methodologies for a better understanding of the roles of oxidative stress and metabolism in cancer and cancer chemotherapy and provide technical assistance with experimental design and interpretation of results for MCC principal investigators.

Oncogenomics Shared Resource Facility

Functioning as one component of the UK HealthCare Genomics Core, the Oncogenomics Shared Resource Facility (OG SRF) provides state-of-the-art technologies specifically adapted to needs of MCC investigators to facilitate genomics into the translational pathway from basic research to clinical and population-based studies. The OG SRF offers a variety of services, including genomic study design and consultation; next generation sequencing for targeted resequencing, whole genome sequencing, RNA-seq, methylation and Chip-seq; microarray technology; Sanger sequencing; pyrosequencing; realtime PCR; and nanostring technology. The OG SRF will play a critical role in MCC’s directions for research and delivery of precision medicine.

Behavioral and Community-Based Research Shared Resource Facility

The Behavioral and Community-Based Research Shared Resource Facility (BCBR SRF) plays a key collaborative role in providing scientific input across behaviorally oriented clinical and community-based cancer research at MCC. The facility serves as a catalyst for community outreach and engagement in our catchment area; more specifically, its existence helps to serve the critical Appalachian eastern Kentucky area. BCBR staff and faculty create and maintain collaborative relationships with MCC clinician-scientists to support non-therapeutic research focusing on behavioral, psychosocial, survivorship, epidemiologic and health services research. The BCBR SRF provides scientific consultation regarding patient and community-oriented

For additional information regarding this position, please contact Corey Lohnes by email at lohnes@grantcooper.com or by phone at (314) 449-1595. To learn more about the Markey Cancer Center, please visit http://ukhealthcare.uky.edu/markey/.
methods such as survey design, outcomes measurement, psycho-metrics, medical chart review, epidemiologic methods, participatory research and medical record review.

**FACILITIES**

UK, a land-grant institution and the state’s flagship university, is one of only a small number of U.S. institutions having a major academic medical center with all 6 health professions colleges (Medicine, Public Health, Pharmacy, Health Sciences, Nursing and Dentistry) on a single campus and in close proximity. The MCC, located at the epicenter of this vibrant and unified university campus, is an integral component of the UK Albert B. Chandler Medical Center (MCC is physically located at the north central end of the Chandler Hospital). Faculty from eight different colleges, all of which adjoin or are across one of two streets from the medical center, are critical to MCC programs and initiatives. Further, UK’s campus places MCC members from diverse research disciplines adjacent to cancer clinical facilities to facilitate and enhance unique interactions and collaborations.

Three dedicated MCC facilities, the Ben F. Roach Cancer Care Facility, the Dorothy Enslow Combs Cancer Research Facility, and the Marylou Whitney and John Hendrickson Cancer Facility for Women, are directly adjacent to new research buildings described below and to the Chandler Hospital’s clinical facilities. UK has aggressively developed its biomedical research campus across the street from the UK Medical Center under a 20-year capital plan that saw the opening of the Biomedical Biological Science Research Building (BBSRB) in 2005 and the Lee T. Todd Jr. Building in 2011. Both house MCC research.

**Research space.** The three-story Combs Building houses cancer research laboratories and support space. An animal care facility in the Combs Building basement, contiguous with UK’s largest central vivarium, accommodates immunodeficient mice. As noted above, two premier research buildings, the BBSRB and the Todd Building, provide dedicated laboratory space in open-neighborhood laboratories that have enhanced transdisciplinary interactions. While the BBSRB houses broadly multidisciplinary research focuses, the third floor houses cancer research. Similarly, the Todd Building, dedicated to biopharmaceutical and computational therapeutics studies, assigns the fifth floor to cancer research laboratories. A pedestrian bridge links the two structures, facilitating collaborations across the cancer community.

State-of-the-art basic research space (two floors) will become available to the MCC in spring 2018 in the new, $265M Research Building 2, which is adjacent to the BBSRB and Todd Buildings and connected by a bridge to both buildings. All RB2 space will be open format space to facilitate substantial collaborative interactions. Its construction acknowledges continued MCC research growth and the UK focus on health disparities. Both wet and dry laboratory space will facilitate translational and transdisciplinary research, including behavioral-based research.

**Clinical space.** The four-story Ben F. Roach Cancer Care Facility houses outpatient clinical space, and its ground floor supports the Hematology Program, Bone Marrow Transplant (BMT) Program and the Radiation Medicine outpatient clinic; modern radiation therapy equipment is located in the basement. The second and third floors house an inpatient hospice facility and other inpatient care and support. The Roach Building also houses MCC administration, the Markey Cancer Foundation, and office space for clinical and research faculty and support staff.

The Whitney-Hendrickson Facility functions as the MCC’s primary ambulatory care facility. This three-story facility houses outpatient space for evaluation and treatment of solid tumor
neoplasms including: lung, head and neck, sarcoma, GI, and urologic cancers (1st floor); breast cancer (2nd floor); and gynecologic cancers (3rd floor).

Notably, a new inpatient floor dedicated to cancer care opened in December 2017. This space, housed in the Chandler Hospital, added nearly 40,000 sq. ft. of space for state-of-the-art inpatient facilities with 63 beds, including a 32-bed BMT unit. Recently, UK HealthCare also renovated space in the Chandler Hospital for MCC’s new Precision Medicine Center to support early phase oncology clinical trials. The PMC, which opened in October 2017, contains four infusion bays, a precision medicine clinic, phlebotomy area and pharmacy work room. The Clinical Research Office is also located in Chandler Hospital.

**Cancer prevention and control and community outreach space.** Cancer prevention and control and SEER/KCR activities have been situated for more than two decades in a free-standing building housing state and campus cancer data resources approximately 2.5 miles from UK along the Harrodsburg Road corridor. This major Lexington artery provides easy direct access to the UK Medical Center. Many CP program members also occupy space in this building and derive considerable benefit from co-location with SEER/KCR and state resources. In 2016, UK opened UKHC-Turfland, expanding its outpatient care footprint along the Harrodsburg Road corridor near the location of the CP program and SEER/KCR. The MCC relocated community outreach offices here to accommodate the expansion of the MCC Affiliate and Research Networks.

**RESEARCH NETWORK**

The MCC is involved in more than 175 groundbreaking clinical research studies each year. These studies offer patients access to new therapies that might represent the best hope for effective treatment. The MCC Research Network (MCCRN) is committed to bringing these important research studies into the communities it serves.

**Mission**

The MCCRN is an alliance of doctors conducting clinical research studies in the prevention, early detection and treatment of cancers. The MCCRN conducts studies initiated by MCC’s own doctors and scientists as well as national studies available through MCC’s membership in the National Cancer Institute’s National Clinical Trials Network. The network provides innovative research studies, support and education for Research Network member sites and thorough quality assurance so all studies meet the highest ethical standards.

**Access Close to Home**

Community hospitals that join the MCCRN will be able to offer their local patients the opportunity to participate in clinical research studies. Patients remain under the direct care of their local doctors and can take advantage of their own support systems by remaining close to home during their treatment.

**Research**

Research studies are targeted to focus both on the areas with the highest rate of disease and the types of cancers that most affect these regions. Appalachia has some of the highest rates of cancer incidence and mortality in the United States, especially for lung, colorectal and cervical cancers. The MCCRN clinical research study portfolio is governed by an advisory committee that includes...
representatives from each MCCRN member site. This committee establishes priorities for the study portfolio and guides the development of high-priority studies.

Coordinating Center
The MCCRN Coordinating Center supports operations of all the activities of the research network, such as:

- Network membership
- Portfolio advisory committee
- Research education and training
- Research study development
- Centralized recruitment
- Project management
- Data management
- Monitoring and quality assurance
- Contracting and research budgets
- Research program development support

AFFILIATE NETWORK

The MCC Affiliate Network is a relationship-based program for health care facilities that provides high-quality cancer services and programs in local communities with the support and guidance of the MCC. Its mission is to enhance access to high-quality cancer care through collaboration with community hospitals. Its vision is for Kentuckians and those from surrounding states to have access to excellent cancer care. The MCC Affiliate Network offers advanced treatments and support services delivered with compassion and respect.

The MCC Affiliate Network assists doctors, nurses, pharmacists and other medical staff at local hospitals that provide excellent care in their communities. When patients need care that is not available where they live, they can be referred to the MCC in Lexington. When that happens, MCC doctors work with community doctors and oncologists to minimize travel for patients and their families.

For additional information regarding this position, please contact Corey Lohnes by email at lohes@grantcooper.com or by phone at (314) 449-1595. To learn more about the Markey Cancer Center, please visit http://ukhealthcare.uky.edu/markey/.
The University of Kentucky College of Medicine is an academic medical institution dedicated to providing superior education and training in order to produce highly qualified, caring physicians to serve the people of Kentucky and the nation. One of six colleges comprising the UK Medical Center (Dentistry, Health Sciences, Medicine, Nursing, Pharmacy, and Public Health), the College of Medicine is located on UK's main campus in scenic Lexington, Ky.

The University of Kentucky College of Medicine, which was founded in 1960, provides innovative, high-quality education through its nationally recognized curriculum, emphasizing early clinical experiences, continuity as a guiding principle, integration of the basic and clinical sciences, and innovative teaching and learning methods such as small-group tutorials, standardized patients, computer-assisted instruction, clinical training models, and interactive lectures and laboratory exercises.

**Campus Expansion**

The UK College of Medicine has a special focus to train more physicians in Kentucky, for Kentucky. On June 6, 2017, a groundbreaking ceremony was held for the University of Kentucky College of Medicine-Bowling Green Campus. This four-year, regional medical school campus is the first of its kind in Kentucky and is a partnership between Med Center Health, the University of Kentucky, and Western Kentucky University.

College of Medicine curriculum emphasizes early clinical experiences and the collaboration between clinical and basic science departments. The same nationally recognized curriculum will be used at our regional campuses in Bowling Green and planned campus in Northern Kentucky, which open in 2018 and 2019 respectively.

**Accreditation**

The College of Medicine’s program leading to the MD degree has been accredited by the Liaison Committee on Medical Education (LCME) since 1960. The LCME, jointly sponsored by the Association of American Medical Colleges and the American Medical Association, is recognized by the U.S. Department of Education as an accrediting agency for medical education programs leading to the M.D. degree. The LCME voted to continue the College of Medicine’s MD program accreditation
in 2011. Accreditation is granted for an eight-year period and the program will undergo review for accreditation again in the 2018-2019 academic year.

**FACTS AND FIGURES**

**Education**

- Admission to the UK College of Medicine continues to be competitive with 2,695 applicants from across the Commonwealth and nation applying for 166 seats in the 2018 entering class.
- Approximately 69 percent of all medical students receive some form of financial aid and 38 percent benefit from scholarship awards.
- In 2017, UK medical students matched into 23 different specialties for residency. Thirty-two percent of the class will complete residency training in primary care as defined by internal medicine, pediatrics, internal medicine-pediatrics, and family medicine. Twenty-three percent elected to stay within the UK HealthCare system, and another three percent remained in Kentucky for other residency programs.
- The college has one of nine triple-board residency programs in the nation where residents can train in adult psychiatry, child and adolescent psychiatry, and pediatrics.
- UK is one of a few medical schools to offer a tuition guarantee program. This guarantees each entering class a set tuition that will remain constant for the four years they are enrolled in medical school.
- The college has more than 9,600 alumni, including medical students, graduate research students and house staff, who practice in all 50 states and several countries around the world.
- UK is one of a few universities to have all six health science colleges (Medicine, Nursing, Dentistry, Pharmacy, Public Health and Health Sciences) all on the same university campus making it well-positioned for interprofessional health care education and collaborative research.

**Research**

- Federal grants in the College of Medicine reached $89.1 million in fiscal year 2017 (July 1, 2016 to June 30, 2017), including in excess of $73.9 million in National Institutes of Health (NIH) funding.
- In federal fiscal year 2017 (October 1, 2016 to September 30, 2017) UK received 62 percent of the NIH research funding granted to Kentucky medical schools.
- The College of Medicine accounts for more than 64 percent of UK's NIH funding.
- Currently, the college has 260,276 square feet of research space. The new 300,000 square foot Research Building 2 set to open in 2018 will more than double the research space currently available to the college.

**Clinical Care**

UK HealthCare – the clinical enterprise of the University of Kentucky – encompasses UK Chandler Hospital, Kentucky Children’s Hospital, UK Good Samaritan Hospital, Markey Cancer Center, Gill Heart Institute, Kentucky Neuroscience Institute, Kentucky Clinics, and the clinical activities of all six health sciences colleges. UK HealthCare offers:
• A team of more than 9,000 physicians, nurses, pharmacists and health care workers all dedicated to patient health.
• More than 80 plus specialty programs and services.
• More than 140 outreach clinics and programs throughout Central and Eastern Kentucky.
• Highly acclaimed centers, including the Center for Advanced Surgery, Minimally Invasive Surgery Center and Transplant Center.
• A ranking as the No. 1 hospital in Kentucky (UK Albert B. Chandler Hospital), according to the Best Hospitals rankings published by U.S. News & World Report. In addition, four major health care areas have achieved top 50 national rankings (cancer, neurology and neurosurgery, geriatrics, and diabetes and endocrinology).

MISSION, VISION AND VALUES

Mission
The College of Medicine promotes a diverse and inclusive environment that provides excellence in education, equitable health care, and transformative research to improve the health and wellness of Kentuckians and beyond.

Vision
The University of Kentucky College of Medicine is a national leader in solving the challenges in health care through transdisciplinary and transformational research, education, and advanced clinical care.

Values
• Diversity - We welcome and embrace diversity as a quality improvement strategy that will positively impact all functional areas of the college.
• Innovation - We will use creative initiatives to produce tangible outcomes in college processes and actions resulting in a critical mass of students, faculty and executives.
• Respect - We will encourage personal and group differences and use them to provide optimal solutions to health care disparities and to foster social justice in the educational and work environments.
• Compassion - We will practice self-reflection and be empathetic to the thoughts, needs and feelings of others.
• Teamwork - We will foster a climate of partnership and collaboration to create positive outcomes for all those engaged in teaching and learning.

ABOUT LEXINGTON

Lexington is the second-largest city in Kentucky and the 60th largest in the United States. Known as the "Horse Capital of the World", it is located in the heart of Kentucky's Bluegrass Region. In the 2016 US Census Estimate, the city's population was 318,449, anchoring a metropolitan area of 606,751 people and a combined statistical area of 856,849 people. Lexington ranks tenth...
among US cities in college education rate, with 39.5% of residents having at least a bachelor's degree.

Fayette County consists of 284 square miles of gently rolling plateau in the center of the inner Bluegrass Region. The area is noted for its beauty, fertile soil, excellent pastureland and horse and stock farms. Poa Pratensis (bluegrass) thrives on the limestone beneath the soil's surface, playing a major role in the area's scenic beauty and in the development of champion horses. Numerous small creeks rise and flow into the Kentucky River.

Lexington's crime consistently ranks below the national average. In addition to foot and car patrols, the Lexington-Fayette Urban County Police Department operates two highly visible units that have proven to be effective crime deterrents. The Lexington Mounted Police Unit and Mountain Bike Unit patrol the downtown area on horseback and bicycles to help assure community safety. A survey by Mercer Human Resource Consulting ranked Lexington as one of the five safest cities in the United States.

Traditional products of the area include horses, bourbon, tobacco and handcrafts, but an increasing diversity of products and services contributes to a healthy economy. Lexington is headquarters to Lexmark International and hosts large operations for Toyota, Amazon.com, Lockheed-Martin, Tempur Sealy, Valvoline, and several other corporations.

**CONSULTANTS**

Ronald J. Chod, MD, MBA  
Managing Partner  
Grant Cooper  
(314) 449-1595  
chod@grantcooper.com

Corey A. Lohnes, PhD  
Senior Client Partner  
Grant Cooper  
(314) 449-1595  
lohnes@grantcooper.com

For additional information regarding this position, please contact Corey Lohnes by email at lohnes@grantcooper.com or by phone at (314) 449-1595. To learn more about the Markey Cancer Center, please visit http://ukhealthcare.uky.edu/markey/.