

## Use what applies to your proposal



### Facilities and Resources

#### A. Intellectual Environment – The Universities

**The University of Tennessee-Knoxville-** Tennessee's Flagship University, is among the top public research universities in the US. As one of the most comprehensive in the nation, it provides a breadth of study and experience matched by few institutions. There are sixty-three doctoral-level programs and eighty-six master's level programs currently active. The University is home to over 100 research institutes and centers and numerous specialized research laboratories and consortia. With total student enrollment of more than 27,000 students, and research funding surpassing \$224 million, University of Tennessee Knoxville provides an ideal milieu for successful research. The following is a list of facilities and resources that contribute to the scientific environment and demonstrate the University of Tennessee at Knoxville's institutional investment and commitment to research.

**Office of Research, Innovation & Economic Development-**The Vice Chancellor for Research and Engagement oversees the university units that provide support for research. The Compliance office is responsible for ethical and regulatory oversight of research at the University of Tennessee Knoxville that involves human subjects. The Research Integrity & Assurances office supports and oversees the work of the Institutional Review Boards (IRBs) with the goal of maximizing protection of human research subjects. The Division of Research Administration office assists in all aspects of the research administration of externally funded research. They assist with managing proposals and awards, monitoring and reporting personnel time on grants, training and development for personnel involved in research administration, and overseeing regulatory compliance. The Division of Research & Innovation Initiative office performs information mining, editing, project management, and budget preparation. The office of faculty development cultivates the skills for all faculty members to advance their scholarship, research, and creative activities.

#### **Research Computing Support-**

**Computing Facilities -** Computing services are shared across campus and are developed and maintained by the Office of Information Technology (OIT). Resources include internet access, e-mail and data transfer facilities, and specialized computing packages. Additionally, OIT provides system administration of various services to the University of Tennessee Knoxville campus and the University Wide Administration. Centrally provided and managed software applications include standard mathematical and statistical software such as Mathematica, Matlab, SPSS, SAS, and STATA, as are GIS applications, including ArcGIS and ATLAS.ti. A central Oracle database server and campus-wide Oracle site license can be used to provide backend database capabilities for applications. By relying on OIT to maintain the hardware, security environment and software builds of computing systems, researchers are free to devote their time to science and research rather than to system administration. The proposed project will take advantage of computing resources either directly on campus or through virtual computer laboratory linkages.

#### **File storage options for sensitive information-**

**One Drive:** The University of Tennessee, provides faculty, staff, and students with a suite of Microsoft Office 365 for Education online services to support the educational, research, and public service

missions of the University. One Drive can be used to host institution data, including FERPA-protected information and Protected Health Information (PHI) or other materials and information covered by the Health Insurance Portability and Accountability Act of 1996 (HIPAA). HIPAA, PHI and PII can be stored in OneDrive if they are encrypted in transit and at rest.

**Google Drive:** The University of Tennessee provides faculty, staff, and students with a suite of Google Apps electronic services to support the educational, research, and public service missions of the University. The Google Apps services can be used to conduct University business, including business containing FERPA protected information. These services shall NOT be used in dealing with Protected Health Information (PHI) or other materials and information covered by the Health Insurance Portability and Accountability Act of 1996 (HIPAA), or other non-FERPA data privacy regulations. Those regulations require UT employees to continue using other UT-approved systems for collaborative activities. Google Apps is simply being offered as an additional technology option for working with information.

**The UT Vault** is a secure file transfer service that allows users to easily send large files quickly and securely. Files are transferred via encrypted HTTP and stored in an encrypted data store. Using Vault is as easy as sending an email with an attachment and it works from both a PC and a Mac. Vault is intended for file transfer and not for permanent file storage. Anyone can use this service to securely exchange files with UT faculty, staff, and students.

**Statistical Consulting Center-** The mission of the Officer of Information Technology's Research Computing Support group at the University of Tennessee Knoxville is to help students, faculty, and staff enhance the quality of their research. The group includes full time experienced statisticians and qualitative analysts with a wide variety of expertise in analytical methods for both quantitative and qualitative research. Areas of support and consultation services include statistical consulting, qualitative analysis, content analysis, text or data mining, designing of studies and determining sample size. The team assists with acquiring data, including designing web surveys, capturing websites, and importing third-party datasets. The team manages data, including cleaning, transforming, recording, converting, stacking, or joining data sets. The group explores data for useful patterns using graphics, interactive visualization and data mining methods. The consultation from the Research Consulting support group includes tips to present your results with editing or writing of the results section is also offered. Other areas of support include mathematics, text analysis, thematic mapping, and visualization. Each faculty member and graduate student is entitled to 15 free hours of consultation every semester. The Research Computing support group has the Newton High Performance Computing Program. Faculty and students have access to quantitative analysis software programs including NVivo, Matlab, R, SAS, SPSS and many more.

**Library Systems** - The University of Tennessee Libraries serves the flagship campus of Tennessee's university system with outstanding print and electronic collections, reference and instructional services, and first-rate technology. Forty-two professional librarians and 100 staff support the teaching, research, and service mission of the University of Tennessee, Knoxville at the 350,000-square-foot John C. Hodges Main Library and two branches (the Webster C. Pendergrass Agriculture and Veterinary Medicine Library and the George F. DeVine Music Library). In the Hodges Main Library, research assistance and computer services are available 24 hours a day in the Commons. The John C. Hodges Library also houses the University's Maps services which is responsible for the geospatial collection, research support, and equipment/software. The University of Tennessee Knoxville Libraries has a strong commitment to resource sharing, to digitization of unique local materials, and to providing electronic resources. Students and faculty at University of Tennessee at Knoxville have access to hundreds of electronic databases including Web of Science, CINAHL Plus, PubMed, Cochrane Library, and PsycINFO. The University of Tennessee Libraries is a member of the Digital Library Federation and the prestigious Association of Research Libraries. The University of Tennessee Knoxville ranks 25th among publically funded Association of Research Libraries members.

**The Studio** is a media production lab located in Hodges Library. Open to students, staff, and faculty, The Studio provides computers, software, and staff to assist users in the creation of media-enhanced educational projects. The goal of The Studio is to provide media computing resources, a trained staff to provide assistance, and information about campus-wide training opportunities. As a part of the University of Tennessee Libraries, The Studio continues a rich tradition of innovation and operates in a creative environment of instructional and service excellence.

**Teaching and Learning Innovation (TLI):** In 2015, the University formed TLI through the merger of the Experience Learning QEP initiative, the Office of Service-Learning, the Office of Online and Digital Programs, and the Teaching and Learning Center into one unit. TLI advances the student experience through programs, services, and partnerships that support faculty and enrich student learning at the UTK. With a focus on evidence-based teaching and learning practices, TLI engages faculty in the creation and implementation of educational experiences and environments that are transformative, innovative, inclusive, and outcomes-focused. TLI is a catalyst for effective student learning experiences through excellence in faculty development, support, and engagement. The study team will work with TLI to ensure that materials developed for the proposed study are at an appropriate literacy level and support learning accessibility principles

## B. The College of Nursing



**University of Tennessee-Knoxville, College of Nursing- [NAME INVESTIGATORS]** are faculty members in the University of Tennessee Knoxville - College of Nursing (CON). The CON is a nationally- recognized leader in the education of highly-skilled, visionary nurses. The CON was established in July 1971

in response to a long-recognized and well-established need for nurses prepared at the collegiate level. The CON enrolls more than 800 students in the undergraduate nursing programs and over 150 students in the graduate nursing programs. The college is committed to the 1) delivery of high quality and academic programs at both the undergraduate and graduate levels, 2) discovery and dissemination of knowledge through research and other scholarly activities, 3) provision of service to the community, and 4) promotion of the profession of nursing. Specifically, the unique mission is to facilitate the development of professional nurses who will promote society's health at the local, regional, national, and international levels. The CON is home to faculty who are not nurses because we value the expertise and knowledge of individuals who enhance human beings and associated science and research that improves lives. The CON is affording **Drs. XXXXXX** the time and resources to work on the project. The CON is home to a number of federally-funded faculty members.

Graduate Enrollment	
DNP	152
PhD	28
GCP	14
<b>Total</b>	<b>194</b>

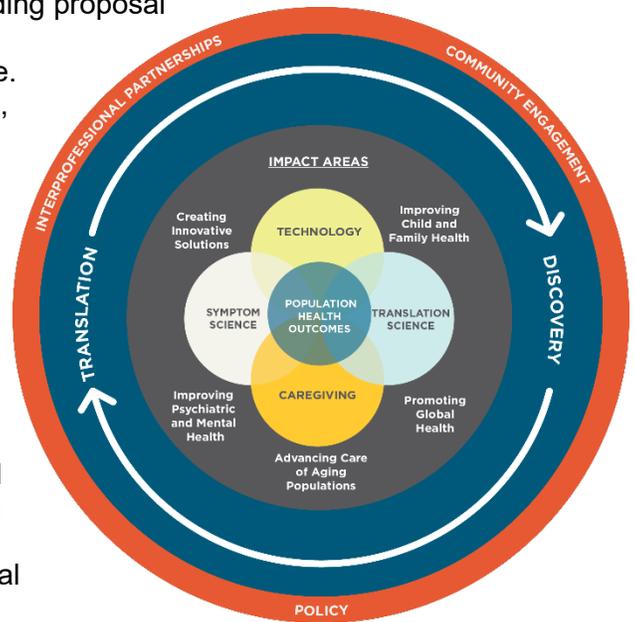
Undergraduate Enrollment		
TBSN	734	
	Fresh (2021)	
	Soph (2020)	
	Junior (2019)	
	Senior (2018, 2017, 2016)	
ABS N	49	
RN to BSN	71	
<b>Total</b>	<b>854</b>	

**Physical Facilities-** The CON is located in a designated and solely occupied building with approximately 42,000 square feet of space that includes faculty offices, administrative areas, conference rooms, classrooms ranging in size from 10 to 280 seats, computer labs, research project space, and skills lab facilities. One floor (approximately 1,000 gross square feet each) is devoted to research support and funded project space. The physical facilities in the CON will be used by the project team for meetings.

**Qualitative Research Equipment:** The CON owns equipment to support qualitative research including portable digital voice recorders with PC connection & memory stick; (3) Omnidirectional conference microphones; (1) Panasonic Digital camcorder PV-DV102; (2) Olympus C-750 4 MP Digital Camera with 10x Optical Zoom; (1) Digital transcriber with foot control and headset. NVivo is available at no additional charge to faculty, staff and students at all UT campuses for installation on university-owned and personally-owned Windows PCs and Macs.

**Information Technology Infrastructure-** The CON maintains its own Information Technology (CON IT) resources and staff who work directly with the faculty, staff, students, and equipment at the college and work in concert with the University-supplied IT support (OIT). The CON IT offers hands on support for users and equipment engaged in teaching and research across the college including: computer setup and security, computer/printer/network troubleshooting, software install and configuration/troubleshooting, simulation technology support, guidance on storing and securing data, equipment research and procurement, general technology equipment maintenance, technology-enhanced classroom support, online testing, web-based video conferencing, and a mobile computer lab of 10 computers. CON IT also acts as the liaison to OIT for the CON and contributes to the strategic plan of the College.

**Office of Research Services-** The CON's Office of Research Service (ORS) facilitates the research endeavors of faculty. The Office of Research Services provides research mentoring and consultation to faculty and oversight of daily operational management including proposal development and submission, pre- and post-award financial management for sponsored projects, and related compliance. The Information Research Specialist assists faculty with IRB, travel, invoices, formatting and editing proposals, graphic design, creation, organization and design of graphs/charts, and purchases related to research. The ORS maintains information on funding sources, research conferences, and faculty research interests. The ORS maintains a comprehensive database linking research and faculty through tracking and management of the research ecosystem and maintains an internet- and intranet system providing faculty grant and conference opportunities, research and computing news, and faculty research activities. All members of the ORS aim to help CON researchers advance nursing science with rigorous research and translation projects that are compliant with local and national regulations. ORS will assist Dr. XXXX in the proposal development and submission and will continue to support Dr. XXXX in IRB, the post award stage and financial management.



**MULTI-SITE COMMUNICATION PLAN (this section to be used ONLY if there are multiple sites)**

This multi-site research will require a thorough plan for governance and communication between [IDENTIFY INVESTIGATORS] as the two primary investigators at each site. The study team currently plans for telephone or web-conference meetings bi-weekly (every two weeks) in addition to 2-3 face-to-face meetings per year of the study (one of which may occur at a professional conference). The first in-person meeting will occur prior to commencing data collection. There will also be the need for clarity regarding timelines, the respective responsibilities of different individuals and groups, training and standards for data collection, management and analysis. Issues around intellectual property and publication will also be considered and discussed. All study documents will be shared via a secure internet connection. We will additionally work together to put together the Study Advisory Committee described in the Human Subjects section of this proposal. The study team has already communicated and coordinated the human subjects reviews for this study at each of the respective locations and have garnered full-board approval at all sites. We fully anticipate a fruitful working relationship.

The CON is a member of the National Hartford Center of Gerontological Nursing Excellence (NHCGNE). The NHCGNE is a specialty organization dedicated to optimal health and quality of life for older adults. A collaboration of national and international nursing schools and institutions with demonstrated excellence in the field of gerontological nursing, NHCGNE members are more likely to achieve success because of the strong collaborative relationships through access to over 300 gerontological nursing leaders, and because of the potential for rapid development of their programs through access to cutting-edge best practices in faculty and curriculum development. As a member of the NHCGNE, which has over 60 national and international member institutions, the CON has access to a vast network of leading experts in gerontological

nursing science that will facilitate the dissemination of the work described in the current proposal and provide a network of support to meet recruitment goals.

## **RESOURCE SHARING PLAN**

We will adhere to the NIH Grant Policy on Sharing of Unique Research Resources including the “Principles and Guidelines for Recipients of NIH Research Grants and Contracts on Obtaining and Disseminating Biomedical Research Resources,” issued December 23, 1999, as it pertains to sharing materials and management of intellectual property. Tools (data, research instruments, etc.) will be made available to all researchers in both the private and public sector free of charge. So that the entire research community can benefit from the tools, data and model organisms (N/A for this application) generated by the University of Tennessee, pending third party rights, the institution will transfer materials to outside researchers under a Material Transfer Agreement (MTAs) generated and monitored by the UT Research Foundation. Such MTAs will be made with no more restrictive terms than the Simple Letter Agreement (SLA) to non-profit institutions. Should any intellectual property arise which requires a patent, we will ensure that the technology (materials and data) remains widely available to the research community in accordance with UT policies and the NIH Principles and Guidelines document. As a means of disseminating and sharing knowledge, we will strive to publish study findings as original research in primary scientific journals in a timely manner and acknowledge that the research was supported by the NIH. We will also ensure that all NIH supported clinical trials are registered with ClinicalTrials.gov and manuscripts reporting findings from NIH sponsored research will be available via Open Access. Excessive publication delays and withholding of data will be avoided and would be unacceptable to the institution. *Sharing Model Organisms*: Not Applicable. *Genome-Wide Association Studies*: Not applicable.

**Summary:** The University of Tennessee is a research-intensive university with a mission-guided, developing infrastructure that supports faculty and student research in many areas of scientific inquiry. It is committed and poised to move the research endeavors of its faculty and students to advance its research mission. The University of Tennessee in collaboration with XXXXX provides necessary infrastructure and resources to carry out the tasks in this proposal.

## **OTHER DEPARTMENTS AND SOURCES TO USE**

**University of Tennessee-Knoxville, Tickle College of Engineering** – Dr. Li is a tenured Associate Professor at the Department of Industrial and Systems Engineering, the University of Tennessee, Knoxville. Established in 1838, the University of Tennessee's Tickle College of Engineering (TCE) has a long tradition of commitment to excellence in scientific research and the training of engineering professionals. The college consists of seven departments of study, four nationally renowned research centers and over 100 state-of-the-art laboratories. The TCE features an enrollment of over 2,700 undergraduate and graduate students and research expenditures top over \$32 million. The TCE is fully accredited by the ABET Board of Engineering and Technology and offers many nationally recognized programs. The mission of the TCE is: 1) to provide high quality education in the major engineering disciplines from the undergraduate through doctoral levels through a creative balance of academic, professional and extracurricular programs; 2) to foster and maintain mutually beneficial partnerships with our alumni, friends, industry, and local, state and federal governments through public services assistance and collaborative research; and 3) to be a major contributor to our nation's technology base through scholarship and research.

**HITS Lab:** Dr. Li co-directs the Health Innovation Technology & Simulation (HITS) Lab with Dr. Tami H. Wyatt at the College of Nursing. The HITS lab at the University of Tennessee, Knoxville is shaping the future of healthcare through its unique, immersive environment and research and development. A partnership between the University's College of Nursing and Tickle College of Engineering, the lab was founded 2010

to *advance the science of health innovation while improving healthcare and healthcare professional training*. The HITS collaborators include engineers, nurses, social workers, educators, and graphic designers specializing in healthcare, informatics, instructional technology, simulation, mHealth, and big data science. Located at Temple Hall, the HITS Lab has more than 7,600-square-feet of simulated space located to provide a replica of the patient care environment. In these spaces, health care providers learn to apply cognitive, technical, and psychomotor skills using an interdisciplinary approach. The HITS Lab is accredited in simulation education and simulation research by the Society for Simulation in Healthcare.

**iLab:** Dr. Li is also the founding Director of the Ideation Laboratory (iLab). The iLab is located at 510 John D. Tickle Building. The computer equipment in the lab includes 4 PowerEdge Servers, 2 3D printers, 10 high-end PC/Mac workstations, 2 network switches, 2 wireless gateway, 5 wireless adapters, 2 Linksys hubs, and 2 HP Laser printers. The computers have been configured to form a wireless/local area network. MySQL database server with 10-T storage is installed on a CentOS server. Data analytical software packages including R, Python/Pandas, SPSS Modeler, SAS etc. are available. These computer facilities will be used to support the planned work.

### **University of Tennessee Medical Center (UTMC):**

The mission of The University of Tennessee Medical Center, the region's only hospital to achieve status as a Magnet® recognized organization, is to serve through healing, education and discovery. UT Medical Center, a 609-bed, not-for-profit academic medical center, serves as a referral center for Eastern Tennessee, Southeast Kentucky and Western North Carolina. The medical center, the region's only Level I Trauma Center, is one of the largest employers in Knoxville. For more information about The University of Tennessee Medical Center, visit online at [www.utmedicalcenter.org](http://www.utmedicalcenter.org).

**Pharmacy:** The pharmacy staff is composed of approximately 150 members in the department of which include 79 pharmacists and 57 Certified Pharmacy Technicians. Of that, 11 are Pharmacy Residents (6 PGY1 Residents, 1 PGY1 Pharmacotherapy Resident, 2 PGY2 Critical Care Residents, 1 PGY2 Internal Medicine Resident and 1 PGY2 Pharmacotherapy Resident). Pharmacy staff provide comprehensive pharmaceutical care through the main pharmacy, retail pharmacy, two satellite pharmacies in oncology and surgery, and twelve decentralized pharmacist teams, consisting of a pharmacist and a certified pharmacy technician. The decentralized pharmacists, including many specialists, respond to formal and informal drug therapy consults for pharmacokinetics among other complex therapeutic issues. The physician services are a mix of private and academic rounding teams of which pharmacists are a crucial member. Pharmacy specialists are available in the following areas: internal medicine/subspecialties, ambulatory/family medicine, emergency medicine, oncology, infectious disease, drug policy, pediatrics, critical care medicine and trauma, transplant, medication safety, clinical informatics, and nightshift medicine.

The Department of Pharmacy was selected as one of four national implementation sites for the ASHP Residency Learning System and has been recognized by the Tennessee Society of Hospital Pharmacists (TSHP) for the Innovative Hospital Pharmacy Practice Award. UTMC Department of Pharmacy also received a coveted invitation to share its pharmacist practice model innovations at ASHP's pivotal Pharmacy Practice Model Initiative (PPMI) Summit.

The University of Tennessee Medical Center actively participates in a number of national trials and registries, including the Society of Thoracic Surgery's Adult Cardiac Registry, the American Heart Society's Get With the Guidelines for Heart Failure and Resuscitation guidelines, and others. Further, we are accredited by the Joint Commission as a Comprehensive Heart Center.

**etHIN:** The University of Tennessee Medical Center participates in the East Tennessee Health Information Network (etHIN) is a non-profit, joint community initiative established in 2005 to serve the needs of healthcare providers in East Tennessee. etHIN's purpose is to create a healthcare information network that is used by authorized providers, supports improving patient outcomes, and helps to potentially lower the cost of healthcare. The community partnership includes local hospital systems, physicians, and other

community healthcare providers. etHIN manages state-of-the-art technology to provide access to patient information by authorized treating providers. etHIN does not provide medical services; rather, it enables quick access to patient information for medical decision-making and a secure infrastructure for care coordination and communication. Members of etHIN's Community of Care have long recognized the need for a Health Information Exchange (HIE) as the right thing to do for our patients. The 2009 Health Information Technology for Economic and Clinical Health (HITECH) Act gave a nationwide directive for creating health information exchanges, which bolstered our early efforts. In 2011, etHIN launched the HIE infrastructure so that authorized healthcare providers with a treatment, payment, or operations need for information about a patient could more easily obtain it. Now, etHIN is working to make health information sharing available to members of its trusted healthcare community, including physicians, clinics, diagnostic centers, hospitals and other point-of-care facilities in East Tennessee. etHIN adheres to all state and federal guidelines that protect Tennessee's healthcare consumers.

**UTMC Brain and Spine Institute:** The Brain and Spine Institute at UTMC is made up of experts in the field of neuroscience and works to bring patients the best healthcare in East Tennessee, providing care for a full range of neurological diseases and disorders.

**Pat Summitt Clinic:** Supported in part by the Pat Summitt Foundation, the Pat Summitt Clinic provides timely, comprehensive, and compassionate care to East Tennesseans faced with cognitive disorders from an experienced, multi-disciplinary team. The Clinic allows for the growth of services provided to patients and families faced with degenerative neurological disorders for the past 35 years at UTMC, assisting in the unending goal of discovering effective treatments for Alzheimer's disease and related dementias through the expansion of clinical research.

**Neuroscience Network of East Tennessee (NeuroNET):** The NeuroNET Research Center was created in response to the rapidly growing neuroscience research and teaching presence across the University, the UT Medical Center (UTMC), and the Oak Ridge National Laboratory. Currently, the Center comprises more than 100 members whose research spans broad areas of neuroscience. The Center includes a unique set of resources, research capabilities, and clinical expertise that are strengthened through interactions with other interdisciplinary organizations at the University and UTMC, such as the National Institute for Mathematical and Biological Synthesis, the Institute for Biomedical Engineering, and the UTMC Brain and Spine Institute.

These interactions have led to external funding from the Kavli Foundation, and have helped launch the Pat Summitt Alzheimer's Clinic. A major goal of the NeuroNET Research Center is to facilitate collaborative neuroscience research between Center members, as well as foster collaborations with external neuroscientists. In support of that goal, external speakers, annual research retreats, regular networking events, grant writing workshops coordinated through the Office of Research and Engagement, and seed funding for new interdisciplinary neuroscience research projects are provided.

**University of Tennessee-Knoxville, Department of Public Health Sciences:** The University of Tennessee's Department of Public Health prepares and mentors its students for exceptional careers in academia, public health research, administration, and practice, which promote optimal health of individuals and communities. The Department is made up of a diverse, talented group of faculty members who bring a high-level of academic preparation from many of our best institutions and expertise ranging from bench science research to medical coding to community health assessment and planning. The Department of Public Health's faculty is knowledgeable in Epidemiology, Biostatistics, and Environmental Health, among other disciplines. There is sufficient office space to house study investigators and staff.

**Jabson Public Health Research Lab:** The Jabson Public Health Research Lab is a public health research laboratory led by Dr. Jennifer Jabson and housed within the Department of Public Health at the University of Tennessee. Undergraduate and graduate student researchers join the lab to develop and enhance their public health research skills. This is done under the close supervision and guidance of Dr. Jabson. Substantial institutional support for the lab's formation and sustainability has been provided by the

Department of Public Health in the form of physical space (700 ft<sup>2</sup>), supplies, and financial resources. The Jabson Lab provides a multi-level training environment for public health research and practice with undergraduate, Master's and doctoral students. The goal of this approach is to enhance public health research training and career development for students at all levels at the University of Tennessee, a strategy that has resulted in scholarly productivity.

**The University of Tennessee-Knoxville, Department of Psychology: *Early Language Learning Laboratory:***

A large double-walled sound-attenuated booth is located in lab and is available 100% of the time for infant testing and stimulus generation. In addition to the sound booth, the PI has a larger room with toys, books, and play mats to brief and debrief parents on experimental procedures and project goals. In the lab there are also 4 additional rooms: 1) a control room; 2) an undergraduate room for calling to recruit families, data coding, etc.; 3) a graduate student/lab manager workspace; and 4) an adult testing room. Computers play a central role in both acquiring and analyzing the proposed experimental tasks. The Infant Language and Perceptual Learning Lab contains a current PC computer equipped with custom software, used for infant participant testing in the Speech Processing Efficiency Task, an Apple G5 computer, and an Apple Mac Mini. Additional PC and iMac computers are available for generating stimulus, coding data, and analyzing data.

**Psychology Department:** The Department of Psychology is housed in the College of Arts and Sciences at the University of Tennessee's flagship campus in Knoxville. The Department of Psychology consists of 3 primary areas (clinical, counseling, and experimental) with a total of 35 faculty (10 assistant professors, 10 associate professors, and 15 full professors). The experimental area is further subdivided into three programs: biological psychology, developmental psychology, and social psychology. Dr. Gordon's research space at the University of Tennessee includes her own office and three additional rooms for laboratory space. Dr. Gordon's office and her three research offices are equipped with desktop computers, laser printers, and high-speed internet. Her research lab also has laptop computers for off-site data collections and portable video-cameras for off-site and on-site observational data collection. The department also provides Dr. Gordon on-site administrative help to make photocopies and other secretarial services. The Department also has a on-site staff member who is trained to oversee budget development and financial administration for internally and externally funded projects. The Department also internally shares four large meeting rooms that are used for large group meetings

**University of Tennessee, Knoxville, School of Information Sciences** – SIS hosts a nationally ranked, ALA accredited master's program in Information Sciences. Accredited since 1972, the School has achieved regional, national, and international recognition through its award winning faculty, innovative research and excellent online education. SIS currently enrolls more than 500 students in the UG courses, about 200 students in the master's program and about 20 doctoral students. Fourteen full-time faculty, plus regional and international lecturers and practitioners teach the students in the school. The school is committed to the delivery of high quality and academic programs at both the undergraduate and graduate levels, to the discovery and dissemination of knowledge through research and other scholarly activities, to the provision of service to the community, and to the promotion of the profession of information sciences. Specifically, the unique mission is to educate information professionals and those who create and consume information products to live, work, and flourish in a dynamic information society through excellence in teaching, research, and creative activity and through public service..

**Physical Facilities-** School of Information Sciences is located on the fourth floor of the communications building. School administrative and faculty offices are located within a wing of the fourth floor of the Communications and University Extension Building, with offices for PhD candidates located on the fourth and second floors. Faculty offices are an average of 145 square feet and contain work and storage space and room for meetings with individual students. A 376 square foot conference room that seats 15 is located within the main administrative office complex. The School's wing includes an area for students to

congregate and to work on individual and group projects; it is an 800 square foot area, known as Dewey's Den & Commons (DDC). Classrooms and conference in the Scripps Lab on the fourth floor of the communications building are also available for SIS class and meeting requirements. The CCI User-eXperience Lab (UXL) provides a state-of-the-art lab environment located in the College of Communication and Information at the University of Tennessee, Knoxville, Tennessee. The CCI User eXperience Lab was founded in 2008 as a collaboration between the College and Oak Ridge National Laboratory. The User eXperience Lab provides an environment conducive to study how users interact with a system and conducive to gaining insight into the system's usability.

The lab supports interdisciplinary research by UTK faculty members, graduate students, university groups, government organizations, and outside companies. The lab offers a full range of UX research services to internal and external clients. The project team will use the physical facilities in the SIS for meetings and research work.

### **The University of Tennessee Health Sciences Center, Department of Audiology and Speech Pathology - UT-AAAL Laboratory.**

The University of Tennessee Augmentative- Alternative Communication, Language, and Literacy (UT-AAAL) lab (<http://www.uthsc.edu/health-professions/asp/research/aaal/index.php>) is an 800 square foot space housed in the Department of Audiology and Speech Pathology at the University of Tennessee Health Science Center (physically located on the UT, Knoxville campus). The UT-AAAL lab focuses on establishing evidence-based practices for augmentative and alternative communication (AAC), in addition to providing AAC support and education for children, adults, and families in East Tennessee. The laboratory workroom contains a general work area for research assistants, storage for stimuli and data, and includes six desktop computer workstations, three laptop computers, two computer printers, and two computer scanners. Of the six desktop computer workstations, four are dedicated to data entry, processing, and analyses, with the other two computers reserved for data collection as needed. All the workstations are equipped with Microsoft Office and statistical analysis software (i.e., SPSS), as well as additional software for video and audio editing, and stimuli creation (i.e., Boardmaker).

Additionally, there are two mobile data collection systems including a laptop computer with touch screen, desktop speakers, a portable digital audio recorder, high quality headphones, head mounted Crown microphone, digital video camcorder, and camcorder tripod. The laptop computers are equipped with Microsoft Office and experimental control software (i.e., Matlab or E-prime).

The UT-AAAL lab houses numerous standardized tests, including vocabulary measures, language testing, phonological awareness testing, and literacy measures including word reading, comprehension, and spelling. In addition to standardized measures, the lab also has criterion reference measures for intelligibility, vocabulary learning, language development, and literacy knowledge.

The UT-AAAL lab is home to state of the art high-tech and low-tech AAC devices. Devices available include: two Tobii i-Series eye gaze systems, Dynavox T-10, Dynavox T-15, Go Talk20, Tech Talk, 32 Messenger, Step-by-Step, Seven-Level Communicator, and 25 iPads with various AAC applications. Both floor and table top mounts are available for use if needed.

Additional resources available to the UT-AAAL lab include portable audiometers and standardized clinical tests.

### **Go to this link for a list of Institutes and Centers that might apply to your proposal**

<http://research.utk.edu/centers/>

### **Community Partnerships:**

<http://research.utk.edu/communities-of-scholars/>

### ***Vine School Clinic -***

The Vine School Health Center is a nurse-founded, nurse-managed health clinic addressing the health care needs of Knox County School students who have difficulty accessing health care or who are uninsured. Based in Vine Middle Magnet School, the Health Center has been operating since 1996, and continues to thrive and grow. A recent expansion included a telehealth program which extends clinical services to eleven additional schools. An interprofessional team of providers includes six nurse practitioner faculty members, two social work faculty members, one education faculty member, three other staff positions, 15 graduate nursing students, 120 senior nursing students, six social work students and two education students. Community partners include Knox County Schools and Knox County Schools Health Services. University of Tennessee, Knoxville partners include faculty and students in the College of Nursing

### ***The Appalachia Community Health and Disaster Readiness Project***

Clay County, Kentucky, was recently described by the New York Times as the “hardest place in the US to live.” Since 2013, UT and Clay County have worked together to winterize local homes, distribute and demonstrate the use of carbon monoxide monitors based on the type of heating sources many families use, conduct health surveys, assess flood damage, train hospital staff on basic and advanced disaster life support, and develop prototypes for homes.

Community partners include Red Bird Mission, Manchester Memorial Hospital, and Emergency Management Services of Clay County. UT partners include the College of Nursing, the College of Architecture and Design, the Department of Civil and Environmental Engineering, and the Law Enforcement Innovation Center.

### ***Companion Animal Initiative in Tennessee***

The Companion Animal Initiative in Tennessee, or CAIT, improves the lives of companion animals and reduces the surplus of cats and dogs in Tennessee. CAIT brings communities together to find solutions to pet issues that impact them directly, such as animal hoarding, dog fighting, puppy mills, and other forms of animal abuse. CAIT programs include provision of veterinary care for the pets of people experiencing homelessness as well as community access to spay and neuter clinics while offering opportunities for veterinary students to develop hands-on expertise in shelter medicine. Veterinary student programs offered through CAIT include elective courses in shelter medicine, cultural influence on animal health care, and responsible pet ownership. The program is also responsible for the Tennessee Animal Law Book, a legislative network and series of public forums.

Community partners include Animal Control Association of Tennessee, Tennessee Veterinary Medical Association, Young Williams Animal Center, community veterinarians, and many other members of the local community.

UT partners include UT’s Veterinary Medical Center, College of Veterinary Medicine, College of Law, and Veterinary Social Work Services

### ***Community Health Fairs***

College of Nursing health fairs have changed locations and themes throughout the years to reflect shifting community needs. The fairs provide an opportunity for traditional Bachelor of Science in Nursing (BSN) and RN students to gain valuable community experience and utilize public health communication skills. In addition, the fairs provide university and Knoxville community members with personal health information and numerous screenings.

Current fairs include “Healthbeat,” an annual on-campus event that is a joint venture with UT Student Health and UT Medical Center, a Knox County Schools health fair at Lonsdale Elementary, and Candleridge Apartments Health Fair for low-income seniors.

Community partners have included Knoxville-area African American churches, Knoxville’s Healthy Living Expo, and many Knoxville-area health-service providers and vendors. UT partners include the College of Nursing, Student Health Services, and UT Medical Center’s Heart, Lung, and Vascular

Institute.

### ***Human Animal Bond in Tennessee (H.A.B.I.T.)***

H.A.B.I.T. is an animal-assisted interaction that benefits community members of all ages and in a variety of settings, such as nursing and retirement homes, assisted-living centers, hospitals, mental health facilities, physical rehabilitation centers, and child and family services centers. Animal-assisted interaction creates relationships between animals and people who assist in creating better mental and physical wellbeing. An emerging academic opportunity was recently created when UT faculty applied research on H.A.B.I.T. benefits children's cancer wards in an effort to determine if this interaction improved physiologic parameters of stress and therefore contributed to better health outcomes. On average, H.A.B.I.T. volunteers make more than 200,000 contacts annually.

Community partners include ninety-four school programs, eighty-one visitation facilities, private veterinary practitioners, and 250 community volunteers. UT partners include the College of Veterinary Medicine, Veterinary Medical Center, Dog Bite Prevention, Humans and Animals Learning Together, Companion Animal Initiative in Tennessee, Veterinary Social Work, College of Veterinary Medicine Public Health, College of Social Work, School of Information Sciences, and the College of Law.

### ***International Health Care Mission***

The intense clinical experience of the International Health Care Mission provides students with the opportunity to immerse themselves in new cultures while developing and sharpening their clinical nursing skills. Students are introduced to tropical medicine and gain experience in providing primary health care to underserved populations assessing community health needs, providing health care education, and staffing immunization clinics. UT faculty and students engage directly with local physicians, nurses, and tribal medicine men. The International Health Care Mission builds trust for medical personnel among members of communities. Students and faculty supervisors provide onsite primary care, dentistry, and home visits to community members. These learning opportunities will improve community and family health practices via instruction from students and faculty and community-wide immunizations. Community partners include local health care providers in a number of countries, including Peru, Costa Rica, Belize, Nicaragua, Ghana, Panama, and the Dominican Republic. The UT partner is the College of Nursing.

### ***Knoxville Homeless Management Information System Program***

KnoxHMIS serves as an empirical window into homelessness in the Knox County community. The only university-based homeless management information system in the country, KnoxHMIS allows for aggregation of client-level data across providers serving the area's homeless. Reports produced from KnoxHMIS are used to inform local and federal decision-making, including data that suggest that Homeless Prevention and Rapid Rehousing programs have been extremely successful in preventing homelessness for at risk individuals and families.

Community partners include the Knoxville Homeless Coalition, US Office of Housing and Urban Development, City of Knoxville, Knox County, Comcast, Knoxville-Knox County Community Action Committee, Catholic Charities of East Tennessee, Community Law Office, Family Promise, Helen Ross McNabb Center, Knox Area Rescue Industries, Knoxville Leadership Foundation, Parkridge Harbor/Positively Living, Redeeming Hope, Salvation Army, Steps House, Tennessee Valley Coalition to End Homelessness, The Next Door, Volunteer Ministry Center, Volunteers of America, and the YWCA. UT partners include the College of Social Work and the Social Work Office of Research and Public Service

### ***The Cerebral Palsy Center, Knoxville, TN.***

The mission of the Cerebral Palsy Center (CP Center) is to assist clients with cerebral palsy to live as independently as possible. There are three day services available at the CP Center.

Facility based services include instruction in personal care, communication, physical health, mobility, and safety. Community based services include activities to assist persons to reach decisions about how they might live their life, including vocational goals, volunteer activities, relationship building, and leisure activities. Employment based services include supported employment with on-the-job training, a four-week externship at a local Walgreens store (stocking, computer, and customer service). This results in a certificate, which may lead to a position at Walgreens. Project Search developed by Cincinnati Children's Hospital Medical Center, includes learning relevant and marketable skills through a 9-month internship. The seamless transition program assists young adults who are graduating from high school. The students learn job skills and then are placed in jobs by the time they graduate.

***East Tennessee Access to Technology Center (ETTAC), Knoxville, TN.***

ETTAC is a regional, nonprofit agency that assists people with disabilities to learn about assistive devices and gain access to them. Access to assistive technology may support people with disabilities, develop employment skills, perform activities of daily living, and lead more independent and productive lives. ETTAC's assistive technology equipment is used for assessment and training. Some devices are available for loan for client use.

***Open Arms Care, Knoxville, TN.***

Open Arms Care is a regional, nonprofit agency that assists people with Intellectual and Developmental disabilities learn vocational skills and daily living skills. The Knoxville operation consists of eight residential group homes in the Karns community and 9,300 square-foot Day Program. Day programs focus on Adaptive and Equipment and Maintenance, Vocational Job Coaching/Volunteering/Community Outreach, Life Skills (sensory processing, attention to task, basic vocational, meal time, personal choice, communication, and skill sets for activities of daily living, such as cooking, cleaning, and related tasks). Open Arms Care also provides residential homes, which are all staffed with Program Manager, House Manager, and Client Support Managers.

***Mid South Chapter Alzheimer's Association (MSCAA):*** The MSCAA, Knoxville Regional Office, serves people with ADRD and their family members throughout the East Tennessee region. The MSCAA provides services including 4-monthly support groups for family caregivers, and ongoing educational programs and seminars for persons with all stages of ADRD and their families. Given the number of persons in Tennessee with ADRD is estimated to be over 120,000 and growing, we anticipate being able to meet our recruit goal of enrolling up to 30 dyads (person with ADRD and family caregiver) for this project. Dr. Rose is partnering with MSCAA on a community engagement grant through the University of Tennessee Knoxville, in which she and other nursing faculty members are recruiting family caregivers for persons with ADRD to explore their challenges in providing care to a loved one with ADRD and co-occurring diabetes. As such, she has an established relationship with this organization and is welcome to recruit for potential study participants at their events. For this project, the staff at MSCAA will assist PI Rose with recruitment efforts at MSCAA-sponsored events and through our monthly newsletter that reaches several hundred households in East Tennessee