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·!—±Ì %Ø³€ %¾³ØH¼ H½‡Ò ½Ø¼Å‡h%» ½ H‰ h½Ò→Ö•i d€i ®n this report,we propose a new academ ic en tity at SMU .

forth teaching and research in the domain of creative and interactive technologies. In some respects it is akin to a program or a center serving the entire university (a center for Twenty-First Century Studies, for example, or one for the Future of Cities), but it differs from a center in that it may house faculty. NQuiry should not be a school, however, because it must not be perceived as in competition with other units in the university. Structural and organizational suggestions are elaborated more fully below.

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The keystone of NQuiry for SMU students is the KVSYT FEWH dWRX VHMWGNTPRREVJ dHEXE HVWZI Rc TVSNIGXWdW UYMWI HcSJcERPcJWWX] I EVdWXYHI RXWdFI KWRRWRKdWRcXLI NcJWWXdW QI WXI V These projects, as well as optional lab-based work and group work in later years, enroll undergraduates and their graduate student proctors in NQuiry's core set of values (fearless engagement of data, interdisciplinary collaboration, new media, and disruption).

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* ZI Vj cJWdWX] I EVdWXYHI RXcTEVXWGNTEXI WdWRcEcJERPWW QI WXI VcP GXYVI dW VWIWdERHcEcTVSNIGX FEWH c XI EQ[SVOcTVSK\EQdHI WKRI HcXScWRMWEXI cXLI QdWRXScEcGYPXYVI cSJcXI GLRSPSK]MZERcPXI VEG]dERHc NRUYMJ FEWH dW PJ HMWI GXI HdWRRSZEXWRKdWRcP EVRWRK c

- The entire freshman class assembles weekly in McFarlin Auditorium for a TVSK\EQcSJc PI GXYVI WdVSQ[SVPH GFEWWZMWSREVJ cP EHI Wd designed to NRWTMI cXLI QcXScJEGI cXLI cK\ERHc GLERPRKI WcSJcSYVcHE]{ MXLcHEXEcGVI EXZI dW WTSRW WdERHdWRX VEGXZI cXI GLRSPSK] (@•MOYZ@• WRE\EI V "ERWK XYWWRXWdEVI dK\SYTI HdWRdVQ ERPWRX VHMWGNTPRREVJ cXI EQ Wd directed by a graduate student proctor. Groups are assigned based on residential commons affiliations, and the different residential groups compete for awards based on their projects. This structure builds loyalty, cooperation, and a ready basis for student-to-student mentoring.
- Throughout the year, as they develop their projects, students turn to just-in-time [SVOWLSTW dw hich offer them the skills of data literacy necessary for their project (e. then

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senior labs will finish their SMU experience with a certificate or other transcripted acknowledgement as appropriate.

I RMSWVd(ERc(SRXAPRYI c; VSYTc SVQcJSVEc(ETWXSRI c

XYHI RXWdGERcEPWScETTPJcJSVEcGETWXSRI d\TI WIRGI d[LMGLd[SYPHdFIcERd\XI RWBRcSVcGSRXAPRYEXMSRc SJcXLIdKVSYTd[SVQcXLI]dHMHcJSVcXLI MdJMXXJ[IEV These students must complete a sufficient number of workshops to gain fluency in code and data extraction and manipulation that will allow them to master the data in their field of study. With permission from affiliated faculty, an NQuiry Capstone project can serve as a senior thesis in other departments such as computer science.

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LKCRL5L) dXYHI RXWd[MPRKEMRcZEPYEFPdcXEGLMRKd\TI WIRGI dF]cTEXGMTEXPRKdMRc36YMJ cBoth the freshman group experience and the workshops will provide opportunities for graduate students to distinguish themselves as teachers in a new model of interdisciplinary, action-based, hands-on learning.

- Graduate students will proctor and [illegible] graduate research groups
- [illegible] graduate students [illegible] faculty research labs, along with postdoctoral fellows and undergraduates

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NQuiry will bring to SMU students a series of digital inquiry project experiences that mediate between and among the disciplines in order to illuminate the often overlooked and assumed [illegible] stude

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NQuiry will harbor ongoing innovative research in the extraction, manipulation, and deployment of data in the service of larger questions and challenges facing humanity in the twenty-first century. NQuiry additionally champions creative expression in and of itself and as a component of problem-solving.

We live in an age of information overload; everyone now broadcasts information instantaneously, but no one, including companies such as Facebook or Google, has as yet devised an automatic way to arrive at a consensus, or to distinguish fact from fiction. Historically, MRJSVQ EXMSRcSZI VPSEHcLEWc TVSHYGI HcPETWVWcMRcORS[P HKI cERHcV WYPXMRKcJEMPYVI WcXScEGXDuring the renaissance, discoveries of new plant specimens were so numerous that the existing encyclopedias failed to keep up with them— failing to keep track of new plant discoveries for a hundred years, before Linnaeus came along with a new system capable of organizing the whole./ YWXVSc SYVS[Rd VEcSJcMRJSVQ EXMSRc SZI VPSEHcV UYMWMXcERcMRXKVEXI HcV WTSRW cSolutions to information overload will come from computationalists who understand Aristotle as well as C++. The humanities and social sciences, computationalists, and designers together must askd SL[XL E cl ME WJ cl MR XMT kcE SL cMRJSVQ EXMSRcGERcFI cHI TPS] I HcMRX KVEXI Hc SXU EREP^I HcERHd\TI VWIRGI HcMRcXLI c[E]WcRI I HI HcF]cEcVSGMX]cWXYKKMRKc[MXLcMRJSVQ EXMSRcSZI VPSEHc

.3 6 YMV] ÌWcXLVI cRSHI WÊ XLI c; YMPHLEPPc(VI EXZI c(SQ TYXMRK cERHcXLI c) MKMXEPc YQ ERMXMWcÊ [MRc WTI GMEPMWXcMRcSSP FYMPHMRKcMRX VEGXZI d\TI VWIRGI cERHd RKEKMRKc[MXLcWLcHEXEcEFSYXcMRVMXYXSRWc c 8 1q Õ PEMHEBGMAAWV MR these three dimensions combined, NQuiry possesses a uniquely rich way of interacting with an information-rich society. In fact, no other institution or center has the UGEE YWVE Ol!3(TM™ñ "3^pÐ •

Humanities provide critical, content-rich engagement with data. Each will build on the others with, for example, the digital humanities providing social science data about democracy to be visualized in Creative Computing, or turned into educational video-games for elementary school students at the Guildhall.

- 4 TTSVXYRMXWWdSVcGVEXZIcVWEVGLcGERdMRGPYHIcERHHWGMTPRIWdERHcERHcJEGYPX]c
  - Research will be seeded by new competitive funding opportunities for the incubation of innovative methods in labs that promote interdisciplinary work. Funding may come from local agencies, museums, businesses, and organizations in the form of projects and/or material support. We will also invite first-class researchers from the strongest institutions in the world to spend postdoctoral or faculty fellowships at SMU.
  - In order for the interdisciplinary innovation of NQuiry to percolate through the university, MRX VHMWGMTPREVJXEQWcSJcVWEVGLIWdcVSQcEGVSWdXLIcYRMZIWMXJcERHc ZMWMXRKcJEGYPX]cVSQcSXLIcYRMZIWMXWd[MRdFIdMRZMXIHcXScETTPJcXSc36YMJcfor otpiertatrtaandermetgtitomsesiwtnQsbtiveheum fellowships providing researchers with lab space and support.
  - Faculty NQuiry labs will form the basis for advanced undergraduate, graduate student, and postdoctoral fellow participation. Faculty PIs for NQuiry labs might be granted some teaching relief in recognition of the intensity of their work.
- Data science and technological service can support faculty innovation in data-rich fields with professional computer science support.

Trans-university cluster hires for faculty who can participate in NQuiry should be strongly encouraged. A university-wide conversation should occur to determine the scope of new hires, perhaps in concert with the recommendations of the Task Force on Scholarly Research and Creative Impact.

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The NQuiry program's teaching and research will be supported by the NQubator, an expanded digital scholarship lab with professional librarians as coordinators and partners. Just as NQuiry research problems require interdisciplinary problem solving, the NQuiry program itself requires a con enda op r