Biomedical Imaging and Visualization Section - HNU264

(1) Develops unique high resolution, monochrome and color image manipulation and display systems, utilizing modern imaging technologies, commercial hardware, and both commercial and custom software components; (2) creates novel 3D display environments incorporating state-of-the-art human/computer interfaces, including the non-traditional pointing and control technologies; (3) implements sophisticated medical image processing methodologies for the analysis and interpretation of MRI, CT, Ultrasound, Microscopic, EENT Video, and other medical imaging modalities; (4) engages in collaborative functional and structural imaging studies in conjunction with NIH research staff; and (5) supports clinical image processing, analysis and display collaborations.
Biomedical Imaging Research Services Section - HNU242

(1) Develops advanced image processing and visualization applications that are comprehensive, extensible, and platform-independent; (2) implements known solutions, algorithms, or methods to quickly and efficiently meet the biomedical imaging needs of collaborators; (3) develops and applies novel applications and algorithms to biomedical images that range from the entire body to the micro level including clinical, animal, and laboratory images; and (4) collaborates with NIH intramural researchers to share computing methods and technologies for the development of novel imaging methodologies.
Call Center Services Section - HNU434

(1) Provides 24x7 signal page and information locator service to the public and the NIH community to include updating locator records for the E911 Emergency System database, and the management of services for security access, blue light emergency and red phone systems; (2) publishes the NIH directory; (3) provides 24x7 operator services for the NIH maintenance facilities and elevator service; (4) provides operator services for NIH patient recruitment; and (5) provides land mobile radio and pager service for the NIH.
Center for Information Technology - HNU

(1) Provides leadership for the determination of NIH computational and telecommunications needs at all levels and oversees the development of appropriate infrastructure support to meet identified needs; (2) develops, operates, and maintains a state-of-the-art regional computer facility and provides overall guidance based on legislation and policy that is responsive to the NIH mission; (3) establishes and operates the necessary organization and infrastructure to assure appropriate security, connectivity, and inter-operability across the NIH Institutes and Centers (ICs), off-campus locations, and remote access; (4) collaborates on, and provides for, research activities in the computational biosciences and statistics; (5) develops, administers, and manages NIH systems, and provides consulting services to the ICs, in support of administrative and business applications; and (6) serves as a Federal Data Processing Center for administrative, biomedical, and statistical computing, provides data processing and high performance computing facilities and integrated telecommunications data networks, and provides services to the DHHS and other Federal agencies.
Computational Bioscience and Engineering Laboratory - HNU26

(1) Collaborates with research investigators in modeling and interpreting data, signals, and images, and assisting with computationally intensive tasks in various application areas, including medical imaging via the CT, MRI and other modalities; (2) collaborates with research investigators to design and develop laboratory or clinical instrumentation and research methodologies, comprised of custom designed hardware and application specific software; (3) provides guidance, support and resources to scientists throughout the NIH in the genomic and genetic analysis fields of Bioinformatics; and (4) develops research systems into progressively more accessible and user-friendly systems, which ultimately become commonly-used computer utilities.
Connectivity and Common Services Section - HNU642

(1) Provides Tier 2 information technology support services to the entire NIH community and resolves advanced IT problems in areas including email, networking, remote access, telecommunications, anti-virus, and wireless technology; (2) provides central account establishment and management services for access to CIT and NIH systems; and (3) distributes technical documentation.
Emergency Telecommunications Services Section - HNU433

(1) Provides telecommunications moves, adds and changes; (2) manages the E911 Emergency Notification System database; (3) manages the physical security and perimeter fence phone access, blue light emergency, and red phone systems; (4) manages the NIH paper and electronic directory; (5) manages emergency preparedness red alert critical access and continuity of operations dial tone access; and (6) manages priority restoration.
Engineering Operations Section - HNU442

(1) Provides network engineering support, research and development of high speed computing technologies in order to enhance IT services, to include LAN/WAN technology, in support of the bio-medical research and business functions of CIT and NIH-wide; (2) evaluates and tests emerging technology to support all voice, data and video services across DNST; (3) furnishes Domain Name Service (DNS), LISTSERV, and network management administration; and (4) supports VPN and Parachute remote access services.
Enterprise Systems Section - HNU643

Provides Tier 2 information technology support services to the entire NIH community and resolves advanced IT problems regarding the NIH Business System, NIH Login, IT AS, mainframe and scientific systems, and other Enterprise systems related issues.
Help Desk Branch - HNU64

(1) Manages the consolidated NIH Help Desk; (2) provides technical assistance to users of CIT and NIH enterprise systems and services; (3) provides technical assistance to users of NIH desktop computers; (4) provides central account establishment and management services for access to CIT and NIH systems; and (5) distributes technical documentation.
High Performance Computing and Informatics Office - HNU23

(1) Develops high-performance computational methods and algorithms to analyze biomedical research data and model complex biological systems; (2) applies visualization concepts to facilitate the analysis and presentation of multidimensional scientific data; (3) develops knowledge-based data management systems that provide the environment for collaborative biomedical research studies including medical image archive systems; (4) provides computing resources to the DCB and collaborating Institutes including high-performance parallel computers and data storage systems; and (5) consults and collaborates with NIH intramural researchers and colleagues at other research centers in applying computer and information technologies to biomedical research problems.
(1) Develops and applies advanced imaging methods and algorithms to biomedical images that range from the entire body to the molecular level; (2) creates and implements innovative software technology for clinical, animal, and laboratory imaging; (3) collaborates in the design and implementation of computational techniques for microscopic imaging and biomolecular structure determination; (4) advances the application of high performance computing to computationally demanding imaging problems; (5) manages the CIT Image Processing Facility (IPF) which provides software to the NIH Institutes; and (6) consults and collaborates with NIH intramural researchers to share computing methods, technologies, and ideas for new imaging methodologies.
(1) Promotes the use and accessibility of mathematical and statistical tools to advance both basic and clinical research; and (2) performs research, in collaboration with scientists from other institutes, and provides expert advice in the quantitative sciences to NIH researchers in these disciplines: (a) numerical analysis of data from chemical experiments and development of theoretical models and algorithms for the interpretation of such data; (b) statistical and mathematically oriented research that arises from biomedical research projects; (c) development of analytical tools for image representation and reconstruction and the application of these to data generated in the Clinical Center; and (d) the application of techniques of theoretical physics, and in particular, of statistical mechanics to problems of NIH interest.
Network and Engineering Branch - HNU44

(1) Provides and maintains a secure, reliable, and high capacity network backbone to support the mission of NIH and scientific research; and (2) explores new technologies to ensure the development of a state-of-the-art network infrastructure in support of the data needs NIH-wide.
Network Implementation Section - HNU446

(1) Integrates, upgrades, and expands Nm's enterprise network infrastructure to meet growing demands of the NIH community; and (2) implements network moves, adds, and changes for wired and wireless networks; provides network infrastructure for new buildings.
Network Operations Section - HNU444

(1) Monitors, operates, and maintains a secure, ubiquitous, network infrastructure that enables NIH customers access to network based information and services twenty four hours per day seven days per week; and (2) provides 24 x 7 network operations support; performs network upgrades; repairs network anomalies.
Network Security Section - HNU445

(1) Protects the integrity and confidentiality of critical and sensitive data transmissions across the NIH network; and (2) delivers firewall, IDS, viruswall, content filtering, and web caching services.
Office of the Director - HNU1

(1) Plans, directs, coordinates, and evaluates the Center's programs, policies, and procedures; and
(2) provides analysis and guidance in the development of systems for the effective use of IT
techniques and equipment in support of NIH programs.
Signal Processing and Instrumentation Section - HNU266

(1) Provides electrical, electronic, electro-optical, computer, and software engineering expertise to the NIH Intramural Research program for projects that require the development of biomedical instrumentation and signal processing systems; (2) provides advanced real-time signal transduction, signal processing, and control systems that result in the creation of new biomedical instrumentation technologies; (3) provides cDNA Microarray, Tissue Microarray, Laser Capture Microdissection, Chromosome Microdissection, Ultra-rapid Scanning Spectrometer, and Electron Paramagnetic Resonance Imaging technologies; (4) conducts research and development activities of the section which are collaborate efforts with NIH Institute scientists involving the development of unique, specialized biomedical instruments; (5) works on projects that involve signal processing algorithm development required for system simulation and signal analysis; and (6) provides design expertise in advanced analog and digital circuitry, biophysical signal transduction techniques, radio frequency and telemetry systems, digital signal processing hardware and software, programmable logic devices, opto-electronics, and computer based instrumentation for signal processing and control.
Telecommunications Infrastructure Branch - HNU43

(1) Provides cost efficient and reliable telecommunications services NIH-wide; (2) provides telecommunications product/services that meet the technological/cost requirements of the medical, scientific and business communities; (3) operates a twenty-four hour/seven days per week call center that provides locator, signal page, wireless voice, directory and answering services for the general public, NIH and DHHS; and (4) manages the semi-annual publication of the NIH telephone directory, NIH meeting schedules and organizational listings.
(1) Provides moves, adds and changes to the 5ESS telephone system for the NIH community; (2) responds to customer requirements voice mail, wireless voice, major moves, circuit management and data collection services; (3) provisions dial tone, and procures telephone sets, Network Terminals (NT1's) and peripheral equipment; and (4) manages telephone features and assigns digital and analog telephone numbers.
(1) Provides scientific and technical expertise in computational science and engineering to support the NIH Intramural Research Program; (2) works with the NIH Institutes and Centers to apply the concepts and technologies of computer science, engineering, physical science, and mathematics to biomedical applications, including the areas of image processing, biomedical informatics, genetic databases, structural biology, scientific visualization, medical imaging, telemedicine, signal processing, biomedical instrumentation, natural language processing, and biomathematics; (3) develops custom computational and instrument-based methodologies, centralized scientific computation solutions, and communication systems to address emerging biomedical laboratory and clinical research initiatives and challenges; and (4) maintains a culture that supports mentorship of computational scientists and engineers for careers in biomedical research.
Office of IT Services Management – HNUA

(1) Manages the planning, execution, operation, and assessment of CIT’s Information Technology services, which include Business Application, Facility Infrastructure management, Hosting and Storage, Identity and Access management, IT Support Services, Network Operations, NIH Service Desk, Unified Communications and Collaboration, and Operations Management Services; (2) advises the CIT Director, Deputy Directors, and senior staff on all aspects of the Center's services; (3) ensures secure and reliable operational availability of all IT infrastructure and related services 24 hours a day; and (4) manages continuity of operations during emergencies.


**Business Application Services- HNUA2**

(1) Develops, manages, and operates enterprise systems, customized applications and commercial tools, used to facilitate the NIH administrative and business management functions, such as procurement, budget, accounting, and human resource activities; and (2) provides development and technical support services to meet IC administrative and program support and application needs.
Service Desk Services - HNUA7

(1) Manages and operates the NIH IT Service Desk, 24-hour Call Center, and all other associated services; (2) facilitates central account establishment for access to NIH-wide IT resources; and (3) manages access to CIT-specific systems.
Operations Management Services- HNUA3

(1) Provides 24-hour monitoring and alert services for the Center's IT infrastructure operational services; (2) manages CIT's NIH-wide communication for maintenance activities and operational incidents; (3) tracks and provides as-needed status reports on all operational incidents; (4) manages and operates the CIT's Change, Incident, Problem, and Release management programs; and (5) provides a broad range of services and support to assure quality and availability of NIH IT services.
Facility/Infrastructure Support Services- HNUA8

(1) Manages and operates the physical cabling infrastructure services necessary to support the NIH research in the Bethesda metropolitan area and across remote locations;
(2) manages and operates the NIH data center facilities and co-location services; and
(3) provides 24-hour management of all aspects of the facility infrastructure systems, including heating, ventilating and air condition, electrical, structural integrity, and access control.
High Performance Computing Services- HNUA4

(1) Plans, manages, supports, and operates NIH's core enterprise-wide, high performance computational environment used by NIH intramural scientists; (2) develops and supports biomedical and life science application programs, associated biomedical databases, programming languages, and tools; (3) provides training and technical expertise for NIH intramural staff relating to NIH high performance computational resources scientific applications; and (4) researches new technology developments in high-performance computing, life science applications, biomedical databases, high-performance storage, and archiving for use of NIH.
Hosting and Storage Services- HNUA9

(1) Plans, manages, supports, and coordinates activities required to provide primary and backup storage services for the NIH ICs; (2) collaborates with ICs to evaluate, select, and recommend new database, middleware, and general best value hosting technologies to support NIH needs; (3) plans, manages, supports, and coordinates activities required to provide application and data base hosting services for NIH on centrally managed UNIX and Windows database, middle tier, web, and application servers; (4) provides systems architecture, integration, and consulting services to NIH ICs; and (5) provides systems and security support for continuity of operations and disaster recovery services.
Identity and Access Management Services - HNUA5

(1) Plans, manages, and operates the NIH enterprise infrastructure required for secure authentication and authorization to NIH IT resources; (2) automates the initiation, capture, recording, and management of user identities and related permissions; (3) ensures that access privileges are granted according to policy; and (4) ensures that services are properly authenticated, authorized, and audited.
IT Support Services- HNUAA

(1) Provides a broad range of IT services to NIH to support general IT needs, including desktop management services and office production of platforms and tools; and (2) coordinates and oversees the CIT IT Training Program for the NIH community support needs.
Network Services- HNUA6

(1) Plans, manages, and coordinates the engineering, design, implementation, and support of secure network infrastructure and services for the NIH wide area network (wired and wireless) to facilitate the use of scientific, administrative, and other business applications; (2) develops and disseminates recommended standards, policies and procedures for the nationwide implementation, and management of NIH networking systems; (3) researches, develops, and tests next-generation networking technologies; (4) provides consulting, guidance, and support to the ICs to meet their network requirements; (5) develops, implements, and supports remote access services to NIH net; and (6) plans, manages, and coordinates all activities required to deliver firewall consultative and management services to the NIH community.
Unified Communications and Collaboration Services- HNUAB

(1) Plans, manages, and coordinates all activities required for the NIH enterprise Unified Communications and Collaboration (UCC) services, which includes voice, video, email messaging, and collaboration; (2) operates and manages the Unified Communications infrastructure to support the needs of the NIH community; (3) serves as the focal point for telecommunications service orders/requests; (4) develops and disseminates recommended standards, policies, and procedures for the NIH Community on implementation and management of NIH video, voice, enterprise messaging and collaboration; (5) researches, recommends, develops, and tests next-generation communication technologies; and (6) ensures the architecture supports 24-hour operation of UCC services for the NIH.
Office of Administrative Management – HNUB

(1) Plans and directs the Business Management functions of the Center for Information Technology (CIT) including Business Management and Communication service areas; (2) advises the CIT Director and Deputy Director on key legislative, regulatory, and policy developments that directly affect the Center's Business Management and Communication service areas; and (3) coordinates Business Management and Communication activities in support of the Center's Information Technology operations and services.
Communications and Outreach Group- HNUB6

(1) Plans and provide effective communication programs and activities to NIH and external agency stakeholders about IT services or topics; (2) provides media and congressional relations support; and (3) collaborates with technical leadership to produce strategies and plans that assure effective communication with NIH staff and stakeholders that facilitate service deployment, delivery, and retirement.
Administrative Management Group- HNUB4

(1) Provides guidance and support on all administrative and business aspects of the Center’s programs, advising on administrative policies and practices; (2) provides overall administrative support services to all programs of the Center, including human resources, space and facilities management, technology transfer, travel management, personal property management, timekeeping, emergency response management, and the implementation of new or changing administrative policies and practices; and (3) coordinates and implements Center-wide responses to NIH management programs.
Financial Management Group- HNUB2

(1) Conducts the financial affairs of the Center, including the formulation, presentation, allocation, execution, tracking and reporting of the Center's budget; (2) provides budgetary and financial planning, tracking, analysis, and reporting; (3) provides billing cost recovery services; and (4) establishes consistent financial policies and procedures for the Center.
Acquisition Planning and Management Group - HNUB5

(1) Provides guidance and advice for acquisition planning and execution of the Center's acquisition activities; (2) oversees and streamlines CIT's contract portfolio; (3) serves as a liaison between CIT's service areas and the NIH contracting activity; (4) manages administrative pre/post-award acquisitions; (5) administers Department-wide enterprise software license agreements; (6) directs purchase card program; and (7) performs analytics and advises on strategic sourcing initiatives.
Management Analysis and Policy Group- HNUB3

(1) Provides analytical support to CIT to drive business and policy decisions; (2) establishes and reviews policies to ensure CIT meets legal, ethical and performance standards; and (3) supports management assessments of performance of service, projects, and initiatives.