MITRE’s Network Center:
At the Forefront of Networking Technology.

The Network Center of The MITRE Corporation’s C1 Group in Bedford, Massachusetts, has already made a significant impact on networking technology, especially in the areas of broadband networks, interoperability, generic network management tools for multi-vendor environments, and network security. Now, our systems engineering involvement in almost 20 high-level LAN and Wide Area Network projects promises to set the direction for networking and communications technology well into the 21st century.

MITRE’s charter is to serve as the C1 Systems Engineer for the U.S. Air Force’s Electronic System Division. We established The Network Center to be the central resource supporting the design and development of networks used to solve problems in numerous distributed support and C1 systems. Our LAN/Wide Area Network projects apply to such areas as command and control, surveillance and warning, intelligence and logistics. We are solving distributed processing problems using networking technology for communications, laying the groundwork for totally distributed systems based on standard protocols—reliable, secure, flexible, survivable networks and the application of powerful workstations to provide needed capabilities.

One of the center’s projects is aimed at the implementation of five networks each providing base-wide communications for 7,000 to 10,000 subscribers housed in up to 50 buildings. In another project we are proposing and evaluating alternative network architectures and estimating the performance for end-to-end communications for NASA’s Space Station. Other activities involve linking large distributed systems to wide area networks; off-loading functionality from DBMS-oriented mainframes to powerful, sophisticated workstations; developing multimedia (voice, data, graphics) networks; defining network and workstation security solutions; and evaluating applicability and performance trade-offs among Arpanet, ISO, and proprietary solutions to network problems.

The Network Center places substantial emphasis on enhancing our reputation on a national level by designing and developing creative solutions that involve concept development, feasibility analysis, prototype development, consultation for integration, as well as guidance for development. The experts who staff the organization work beyond the leading edge of networking technology, with the innovators among network product and workstation vendors, and receive the visibility and recognition that match the importance of their contributions.

Technical Leaders—Networking

We need senior technical people for both the management and the technical ladder to help set the direction in system engineering of network architectures. We work with wide-area and local-area networks, requiring expertise in one or both of these fields. Specific responsibilities will include providing engineering support to the analysis and design of computer communications networks, establishing the trade-offs involved in different networking technologies as applied to specific applications, and defining network architectures which will support analytical and simulation efforts. To qualify, you should hold a BS/MS, and at least 10 years of experience. A strong background in communications systems, protocols, software development, and commercially available network architectures is required. Effective management experience in defining tasks, producing products, leading engineers, and satisfying the customer within schedule is essential. Familiarity with state-of-the-art and emerging technologies such as T-1 networking, FDDI, and ISDN is desirable, as is experience in modeling and simulation.

Technical Leaders—Workstation/Distributed Applications

We seek leaders with a recognized technical background who can lead a dynamic team to work on areas addressing the close coupling that exists between LANs and the distributed information system environments they commonly support. Your specific, current responsibilities will involve trade-offs among SUN class vs. Apple Macintosh II vs. IBM/Microsoft environments; the applicability of network windowing concepts and network file system concepts to distributed C1 systems; and the applicability of commercial office automation products to C1 applications. To qualify, you should hold a BS/MS and at least 10 years of directly related experience. Excellent interpersonal, communications, and leadership skills are essential.

If interested and qualified, please reply in strictest confidence to: David L. Finnegan, The MITRE Corporation, 4808 Middlesex Turnpike, Bedford, MA 01730. U.S. Citizenship is required for all positions.

For C1 and Civil systems engineering positions at MITRE’s Washington, D.C. Center, forward resume to: M. X. Mason, The MITRE Corporation, 7525 Colshire Drive, McLean, VA 22102.

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