

Mini News

News For The Employees of Data General

November 14, 1986

Get Time Cards In Early

Due to the upcoming Thanksgiving holiday, time cards for the week ending November 22 will be due in Payroll by 3:00 p.m. on Thursday, November 20. Time cards for the week ending November 29 will be due in Payroll by 3:00 p.m. on Wednesday, November 26. Any unscheduled overtime should be included in the next week's time cards.

Data General Expands Line; Support Of CIM Strategy



Group Marketing Vice President Dave Lyons (right) and Michael Lockhart, vice president for Finance/MIS Systems at General Electric, put the ink to an agreement which provides Data General with CIM solutions for factory automation, manufacturing planning and control, engineering design and administration.

Data General has completed the heart of its computer-integrated manufacturing (CIM) strategy with a strategic marketing alliance with General Electric (GE) and agreements with other CIM vendors. Data General also has made enhancements to its workstations in order to make them even more suitable for design applications. These alliances and product enhancements support

Data General's industry marketing strategy to make available to users comprehensive, integrated CIM solutions.

"CIM incorporates an extensive range of operations -- including factory automation; manufacturing planning and control; engineering design; and administration," says Dave Lyons, Group Marketing vice president. "For that reason, Data General has long been alert to the vast potential scope of CIM and has therefore moved to form alliances with companies expert in applications, integration and communications. These alliances are key to success in the manufacturing marketplace."

Factory Automation

Through the agreement with GE, Data General will sell and support DG/FMS (Factory Management System) factory automation software with Data General's complete line of ECLIPSE MV/Family computers. Data General's Systems Division will provide customized installations, and hardware and software interfaces to Data General equipment.

GE will provide significant marketing support to Data General through plant tours, trade shows, joint sales calls and training classes. GE Consulting Services Corporation, a wholly-owned subsidiary of GE, will provide software support services for installation; customized systems analysis and design; customized applications; and customized interfaces.

DG/FMS automatically schedules jobs; sends them to the appropriate machine and operator; alerts quality assurance personnel to appropriate inspections; and provides electronic transmission of numerical control (N/C) part programs to the appropriate N/C machines. All communications between personnel can be done interactively via DG/FMS at each work station.

As a result, everyone has the information necessary to start and complete jobs without wasting valuable time on paperwork, tracking materials and seeking information to complete a job. Efficient communications greatly reduce the amount of time necessary in the manufacturing cycle.

DG/FMS was developed and implemented by GE in its Schenectady, N.Y., steam turbine plant. In 1984, it won the CASA/SME LEAD Award for excellence in implementation of CIM.

Complementary Agreements

Data General also has entered into agreements with Comark Corporation and Logan Associates which complement the one with GE.

COMARK factory-hardened terminals operate in the DG/FMS environment and are currently installed in GE's Schenectady steam turbine plant. Data General will provide COMARK with marketing support in sales of these terminals.

The agreement between Data General and Logan Associates calls for Data General to provide marketing support in sales of LOCAM computer-aided process planning software. It links an organization's design department with manufacturing by automating decision-making functions to enable manufacturing engineers to efficiently create and maintain process plans. LOCAM currently is integrated with DG/FMS software in GE's Schenectady plant.

Engineering Design

For engineering design applications, Data General is now making available high-resolution color graphics displays in 15- and 19-inch formats to users of DS/7500 engineering workstations.

Because of their resolutions, the new displays are especially suited for design and drafting in mechanical engineering, architectural design and mapping applications.

In addition, Data General will jointly market Seiko CH-5300 series color hardcopiers for use with the DS/7500 workstations and the GDC series of graphics display controllers.

New Display

A graphics controller co-processor and 15-inch color monitor, the GDC/286 graphics display controller, is now available for use with the DASHER/286, Data General's PC/AT compatible workstation.

The GDC/286 provides the workstation with high-resolution, high-performance, graphics capabilities which are necessary to handle design automation applications. The GDC/286 costs \$6,295.

At the same time, prices for DASHER/286 packaged systems have been reduced up to 10 percent. A DASHER/286 workstation, with a GDC/286 subsystem is available for less than \$10,000.

Administration

Rounding out Data General's CIM strategy are the TEO/Electronics and TEO/3D design automation software tools which were introduced last August. These products integrate the specialized design automation tools of other companies with Data General's technical electronic office workstation-based software.

"Data General will continue to enhance its industry leading CEO comprehensive electronic office software and TEO technical electronic office software to provide the best integration platform tools in the industry," says Dave.

Dama Telecommunications Files For Protection

Dama Telecommunications, a privately-held company in which Data General has a financial interest, has filed for protection under Chapter 11 of the Federal Bankruptcy Code in Federal District Court in Maryland, in preparation for the submission of a reorganization plan. The action was taken by Dama due to difficulties that the telecommunications company had experienced in securing additional financing from its investors.

Data General intends to provide financial support to continue normal operations at Dama during the bankruptcy proceedings. As of September 27, Data General had loans outstanding to Dama totaling \$20 million, voting stock and rights acquired totaling \$5 million, and has guaranteed repayment of certain of Dama's borrowings to other parties of \$4 million. At some future date there may have to be a writedown in the carrying value of Data General's investment in Dama.

Data General believes Dama will be financially strengthened by this reorganization which will allow Dama to increase its efforts on the integrated-voice-data digital wide-area network portion of its business and to eliminate the long distance voice resale portion of its business. Dama's unique telecommunications technology, combined with its very strong Damanet line of high-speed digital voice and data communications capabilities, should make Dama a highly-competitive supplier in the market for private corporate networks.

New System Makes It Easier To Track Parts

Employees within the Information Management Group (IMG) currently are implementing a new bill of material system which will streamline the documentation process around the design and manufacture of Data General products.

The bill of material is a listing of all sub-assemblies and parts which make up Data General computers and associated peripheral equipment. It includes descriptive information on each item including the cost and content, providing engineers with a complete record of the 250,000 items that are comprised within Data General's product line.

"This new bill of material system will provide the company with four advantages over the old database," says Harvay Parad, a business/technical consultant within IMG. "It will be more accurate, easily accessible, timely, and maintainable at a low cost."

According to Harvey, employees who need bill of material information will now have access to the system from their terminals. "In the past," states Harvay, "hard-copies in the form of microfiche were distributed to all locations outside of Westboro. It took weeks for some locations to get their copies. By that time, the bill

DATA GENERAL EMPLOYEE REFERRAL PROGRAM



SEE INSIDE FOR DETAILS

DATA GENERAL NEEDS MORE PEOPLE LIKE YOU

Continued success depends on people like you who are smart, dedicated and determined to be the best in the industry.

You can play an even bigger part in Data General's future by introducing more people to our Sales and Development teams.

YOU'LL GET MORE THAN SATISFACTION

In addition to the satisfaction you get from having strengthening the team, Data General will reward you with a referral bonus. And right now, those bonuses are better than ever for experienced people in

S A L E S S Y S T E M S E N G I N E E R I N G R E S E A R C H & D E V E L O P M E N T

It's simple! Refer candidates to Data General for jobs listed in this flyer. When one of your candidates joins the company in one of those positions, you become \$1,000 or \$2,000 richer. (See details inside)

Data General is paying \$1,000 for your first successful referral and \$2,000 for each subsequent successful referral.

This program is underway NOW! The special \$1,000/\$2,000 could end at anytime when the critical positions are filled. So to pick up a grand or two for the holidays, you must act now.

SPECIAL SALES, SYSTEMS, R & D REFERRAL PROGRAM

\$1,000 FOR FIRST REFERRAL

\$2,000 FOR SUBSEQUENT REFERRALS

The special referral bonus schedule is for experienced people hired into Sales, Systems and Research Development positions between June 30, 1986 and the end of the program, which may come at anytime when the positions are filled.

1. An employee referring a candidate must provide a resume, completed employment application, or mini-application form to the Human Resources Representative responsible for the opening.
2. Attach a referral card or form.
3. Submit an application or resume for each position being applied for.
4. After your candidate begins work at Data General, you will receive your referral bonus.

Supervisors and managers are not eligible for bonuses in their own area of supervision. Human Resource department employees are not eligible to participate in the referral program.

Positions to be filled by recent college graduates, entry level, or non-exempt candidates do not qualify under referral programs.

In addition to this special program, Data General continues its on-going referral program which pays bonuses from \$500 to \$750 for referring experienced Administrative personnel for exempt positions.

All interpretations and decisions regarding eligibility for and payment of bonuses are the responsibility of the Corporate Employment manager, at Extension 4506, MS A-237, or CEO-HOBBS S:NIKE.

Referral Program Mini-Application

Name _____

Home Address _____

Home Phone _____ **Business Phone** _____

Position Applying for _____

Present Position _____ **Company** _____

Past Positions (title, company, dates)

Geographic Preference (if any) _____

Referred by _____ **Badge No.** _____

Plant/Office Location _____ **Phone** _____ **CEO** _____

Submit to Human Resources Representative Responsible For Open Position

WESTBORO

SYSTEMS DEVELOPMENT DIVISION

ELECTRICAL CAD SYSTEMS

Refer Candidates to:

Phyllis Goldberg

MS E-111

Extension 3065

CEO-GOLDBERG P:TITAN

Electrical CAD systems designs, develops and supports state-of-the art CAD systems for gate array and pcb design; and develops and maintains software tools for designing central processors.

Currently these positions are open:

CAD Software Engineer - Participate in design of new applications and enhance and extend current applications including TEO/Electronic software. BSEE or BSCS. 3 years related experience.

CAD Software Engineer - Develop new CAD design programs for pcb and gate array development; support existing CAE application software. BSEE or BSCS. 1 to 4 years experience. Knowledge of "C" and mainsail desired.

SYSTEMS SOFTWARE DEVELOPMENT

Refer Candidates to:

Phyllis Goldberg

MS E-111

Extension 3065

CEO-GOLDBERG P:TITAN

Systems Software Development (SSD) designs and develop proprietary operating systems, Data Services and languages technology. Operating Systems Development is located in Westboro. Data Services and Languages are located in RTP. (See section on RTP)

Operating Systems

Principal Software Engineer/Operating Systems Development - Develops and enhances proprietary operating systems. BS/MS. Minimum 6 years experience in operating systems development and systems programming, and any of the following: operating systems internals, peripherals management, terminal I/O, or file management.

Senior/Principal Software

Engineer-Operating Systems Utilities - Designs and implements system management, utilities and control program for proprietary operating systems. BS/MS. Minimum 4 years experience. Experience in high level languages (PL1, C) desirable.

Principal Software Engineer-Operating Systems Kernel - Develop and enhance operating system internals for AOS/VIS. BS/MS. Minimum 6 years related experience in systems programming, schedulers, and memory management.

Senior/Principal Software Engineer-Communications - Develop and distribute components of proprietary operating systems. BS/MS. Minimum 4 years experience in operating systems, local area networks or distribution.

USER SYSTEMS DEVELOPMENT

Refer Candidates to:

Annie Hubbard

MS E-111

Extension 4495

CEO-Hubbard A:TITAN

User Systems Development (USD) activities bear directly on end user productivity. These activities include Application Software Development (CEO, Customer Documentation, the Benchmark and Performance Lab), Systems Qualification and Support (Software QA as well as technical support for the Data General field staff). USD is located in both Westboro and Research Triangle Park (RTP), North Carolina. The RTP facility houses portions of the Customer Documentation and Systems Qualification and Support groups.

The following positions are available in Westboro:

Senior Software Engineer-Software

Technical Support - Responsible for communications software support. Experience with X.25 or IBM SNA and project management required. BS/MS. 3 years of related experience.

Senior/Principle Software

Engineer-Performance Analysis - Performs corporate level benchmark testing and systematic performance analysis in one or more of the following: office automation, data management, transaction processing, operating systems, CPU, peripherals, area communications or graphics/workstations. BSEE/MSEE. 3-6 years related experience.

Principal Software Engineer-Word

Processing Development - Develop many aspects of general word processor serving all parts of product line or focus on facilities for editing and formatting scientific/technical segments of text documents. BS/MS. 6 years of related experience with background in word processing, document formatting and printing or graphics, or experience in PL/I, "C", MS-DOS, UNIX, AOS/VIS or project leadership a plus.

Project Leader/Principal Engineer-Decision Support - Develops data extract mechanisms and end user query interfaces to multiple database services or interacting interfaces to graphics and report writing. BS/MS. 6 years related experience. Background in database, query processing or report writing, business graphics and interactive software desirable.

Principal Software Engineer-CEO Information Management - Work on interfaces and service functions for CEO, relating to naming services, mail, and document management. BS/MS. 6 years related experience. Background in office automation, electronic mail and filing, experience in PL/I or Data General development tools a plus.

Senior/Principal Software Engineer-Graphics Software - Focus on internals of GKS graphics software package. BS/MS. 3-6 years experience in systems programming, graphics systems internals, device drivers, and GKS required.

Project Leader/Principal Software Engineer-Windowing/User Interface Systems - Provide technical leadership for the design and completion of tools for integrating applications under windowing environment. BS/MS. 6 years related experience. Background in system software, workstations, graphics support systems, and windowing systems required.

Senior Technical Writer-Customer

Documentation - Responsible for customer documentation for Data General software and hardware products. BS/MS plus certificate in Technical Writing or equivalent experience. Minimum 3 years related experience required. Technical background strongly encouraged. Writing samples will be required.

Senior Software Engineer-Software Quality Assurance - Responsible for operating systems, office products, or communications related software products. Design and develop intelligent test tools with automated test-case generation and results verification. Develop functional and stress tests for product evaluation. BS/MS. Minimum 3 years of systems programming plus working knowledge of either operating systems, communications or office products software.

CENTRAL PROCESSOR DEVELOPMENT

Refer Candidates to:

Carol Gunther-Mohr

F-213

Extension 4561

CEO-GUNTHER MOHR C:TITAN

Central Processor Development (CPD) is responsible for the design and development of Central Processor Units for Data General systems.

Principal Hardware Engineer - Specify and design portions of new 32-bit computer systems and CPU designs. Investigate technologies and alternatives. Provide leadership for college hires and work with other areas of the organization and/or outside vendors. MS/BS in electrical engineering or computer science or equivalent experience. Minimum 5 years in central processor design. Supervisory experience desirable.

Hardware Staff Engineer - Specify and lead design of new 32-bit computer systems and subsystems. Specify goals/evaluate alternatives. Work with vendors on new technologies. Supervise a small group of engineers in the implementation of new designs. BSEE/MSEE or CS or equivalent. 8-12 years as hardware design engineer in central processor design. Some supervisory experience desirable.

Principal Hardware Engineer - Work with a small group with a proven track record to specify and design a new very high performance computer system employing state of the art parallel processing architecture. Supervise a small group in implementing the design using leading edge technology and design methodologies. BSEE or MSEE or equivalent experience. 6-9 years of solid hardware design experience with a background in high performance CPU design,

vector processing, and/or massively parallel computer architecture.

Senior Section Manager - Responsible for managing all product development activity for complex integrated systems projects.

Manager is accountable for meeting technical schedule, price, performance and manufacturability goals of products.

Experience in all aspects of system design and integration from CPU's to peripheral devices. BSEE or MSEE preferred plus minimum 9 years of experience including project management, or equivalent experience.

Hardware Project Leader II - Make system design and integration trade off to optimize price, performance, and schedule goals for projects. Technical and supervisory management of project design team, and interfacing with marketing, manufacturing, and engineering services. BSEE or MSEE preferred. Minimum 6 years experience including all aspect of system design and integration for CPU's to peripheral devices plus project management or equivalent.

Hardware Project Leader II - Technical leader and manager of 10 CPU designers. Direct, coordinate and block level design of custom chip CPU. Work with testability, microcode, and CAD groups, cell designers and outside vendors. BSEE/MSEE in logic design or semiconductors, or equivalent experience. Minimum 5 years or 2 or 3 completed projects experience in CPU design with some supervisory duties. Custom and CMOS experience a plus.

Senior Hardware Engineer - Simulate CPU boards of high complexity; supervise 2-3 engineers, and interface with other members of CPU design team. Determine board and device modeling requirements; integrate designs from several engineers into a single unit; and make tradeoff decisions on actual

hardware implementation vs. simulated system. BS/MS in electrical engineering or computer engineering or equivalent. 4 to 5 years experience with CPU design and simulation, familiarity with CAD tools, schematic entry, behavioral simulators, functional simulators and accelerators, and VLSI experience. Training in TEGAS, SILOS, TEXSIM, and DAISY, MENTOR, VALID or other workstation preferred.

Hardware Engineer II - Model major section of a CPU being built in VLSI. Write behavioral and functional simulations and evaluate them for correctness using test and fault coverage programs. Work independently and interface with CPU managers and other simulation engineers. BS/MS in electrical engineering or computer engineering or equivalent. 2-3 years experience in hardware product design and simulation. Skilled in use of CAD tools and modeling, schematic entry, simulation of behavioral and functional models, and VLSI. Training in TEGAS, SILOS, TEXSIM, and DAISY, MENTOR, VALID or other workstation preferred.

Hardware Engineer II - Work with logic designers to develop the test features for various functional units of a fully custom integrated circuit. Ensure the proper design and implementation of the test logic and then generate the test feature to verify the quality of the tests by performing fault simulation. BSEE. Experience in developing semi-or fully-customized integrated circuits and with microcoded machines. 2 plus years experience in logic design and/or hardware diagnostics preferred. Knowledge of current DFT techniques and CAE methods.

EMPLOYEE REFERRAL CARD

CANDIDATE _____ DATE REFERRED _____

ADDRESS _____ ZIP CODE _____

TELEPHONE HOME() _____ WORK() _____

FOR POSITION OF _____ JOB NO. _____

REFERRED BY _____ EXT. _____ M. S. _____

FOR PERSONNEL USE ONLY

STAFFING SPECIALIST _____ REFERRED BY _____

POSITION _____ JOB NO. _____

DATE OF HIRE _____ BONUS AMOUNT \$ _____

DATE BONUS DUE _____

Form No.10-11-028

COMMUNICATIONS & NETWORK SYSTEMS

This division does advanced development in support of communications networking. This includes local and wide area networks, network management, SNA, GM/MAP and network technical services.

Refer Candidates To:

Al Weston

MS A237 - Westboro

Extension 4502

CEO: WESTON A:NIKE

Project Leader/Software - Design and implement network management systems. Coordinate and direct activities of project team. Interact with marketing, release support, QA and other internal groups. BS in Computer Science. Communications and/or operating systems background plus previous project leadership responsibility desired.

Diagnostic Project Leader - Set diagnostic strategy and assist with diagnostic program design and development for new hardware in area of microprocessor based digital communications/networking products. BSEE/MSEE. 6 to 8 years experience plus familiarity with existing LAN/P-P IC controllers required. Must be cognizant of diagnostic strategy and techniques.

Principle Engineers/Hardware - Be involved in all aspects of product development from conception to release to manufacturing. Design systems or detailed logic design of microprocessor based digital communications controllers and related products. BSEE/MSEE. Design experience in local/wide area networks and gate array desirable. VLSI exposure a plus.

Principle Engineer/Software - Develop next generation network management system, network monitor and control system, operator interface subsystem and a configuration/system status data management subsystem. BS in computer science. 6 to 8 years systems experience in operating systems, data management systems or communications systems. May involve use of AI techniques and fourth generation languages. Exposure to AI techniques a plus.

Principle Engineer/Software - As a senior technical contributor on a development team, develop ISO based networks for the Xodiac intelligent controllers, integrate Xodiac transport system with AOS/VS, and develop local area network terminal server. Leader junior people. BS in computer science, computer engineering or electrical engineering. 6 to 8 years software development experience. Project leadership experience and knowledge of PL/1, "C", and assembler, operating systems and/or communication experience beneficial.

Principle Engineer/Software - Design and implement FTAM SASE product development including writing of functional and design specifications, writing and testing code, and integration of product. BS in computer science. 6 to 8 years software development experience with at least 3 years in communications or operating systems.

Principle Engineer/Software - Programmer for VM and MVS IBM system. Install, configure and maintain MVS, VTAM, NCP, CICS, DISOSS, PS/370, VM, PROFS, RSCS and miscellaneous communications software products. Work with other groups in developing special configurations and tools to

develop and test products to interface with IBM host systems. BS in computer science, math or other science. 6 to 8 years experience with at least 3 years installing and maintaining MVS system components.

Software Engineer Project Leader - Responsible for existing Xodiac product efforts including technical enhancement and support, coordination with corporate support, field support and marketing groups and product status reporting. BS in computer science. 6 to 8 years of software development experience including at least 2 years of project leadership experience or product responsibility.

Senior Software Engineer - Develop transport level software including communications protocols and device drivers for GM/MAP project. BS in computer science. 3 to 6 years product development and design in finite state machines experience.

Senior Software Engineer - As part of a development team, develop ISO based networks for the Xodiac product line including software development for 68000 based intelligent controllers, integration of the Xodiac transport system with AOS/VS and development of a local area network terminal server. BS in computer science, computer engineering, electrical engineering. 3 to 6 years software development experience. Knowledge of PL/1, "C", and assembler, operating systems and/or communication experience beneficial.

R T P

LANGUAGES AND DATA SERVICES

Refer Candidates to:

Betsy Allen

MS 5-0 (RTP)

Extension 5939 (Tie Line 262)

CEO-ALLEN B:RTP 16

Senior/Principal Software Engineer-Development Environments - Build, maintain, and enhance the common compiler components for Data General's standard compilers. BS/MS in computer science or equivalent. 4 to 8 years computer software experience. Experience with code generators or other software that generates machine code is required.

Senior/Principal Software Engineer-Microsystems - Experienced "C" programmer interested in microprocessor based PC integration project. Experience in window management/user interface

programming, IBM PC architecture, local area networks and server concepts required. Team leadership skills and the ability to take abstract concepts and produce results with little supervision required. BS/MS in CS or equivalent with 4-8 years experience in software.

Senior/Principal Software Engineer-Data Management - Development of DG/SQL and TPMS products to support high end data management strategy, AOS/VS, PC integration and workstation integration. BS/MS in computer science or equivalent. 4-8 years of system programming experience in data management, operating systems, programming languages, software development environments or communications software.

Senior/Principal Software Engineer-Language Development - Perform system programming functions as a member of a project team for the "C" product. Design, code, debug and test enhancements and fixes to both the "C" compiler and runtime system. The development environment consists of programming in PL/I and assembler language on the AOS/VS and DG/UX operating systems.

BS/MS in CS or equivalent. 4-8 years experience with knowledge of compiler theory and design technologies, "C". PL/I, MV/Assembly, and AOS/VS system calls.

Software Engineers-DG/UX - DG/UX is an operating system based on AT&T System V UNIX(tm) with significant added function from the 4.2 BSD and SUN NFS products. BS/MS in computer science or equivalent. 4 to 6 years experience.

Experienced software developers are needed in the following areas:

Operating System Kernel: to develop distributed file systems, multiprocessor kernel, and new processor and peripherals support. Experience in operating systems internals.

Commands and Office Automation: to integrate commands and utilities into the X window environment; design/develop software to improve the ease of use for system management and user functions, including software development environments and office automation products.

Communications: to work with data communication protocols, user interfaces, and device drivers. Current projects include TCP/IP, 3270,X.25, SNA, and HASP/RJE.

DURHAM

MASS STORAGE ENGINEERING

Optical Disc Development

Refer Candidates To:

**Bonita Cox
Durham**

Extension 6149 (Tie Line 235)

CEO: COX B:DUR01

The Advanced Technology department of Mass Storage Engineering has immediate openings in its Optical Disc Development program for electrical, mechanical, and optic engineers. All positions require a BS or MS degree in Engineering and a minimum of 5 to 8 years experience:

Servo Engineer (2 openings) - Use experience in simulation, design and testing of closed-loop motion control systems to develop a means of positioning an optical head on a disc with track densities in excess of 15,000 per inch. Involved in the design of spindle motor control, laser focus circuits, and a high speed disc storage and retrieval system. Experience with stepper motors and brushless DC motors and a solid background in classical and modern control theory including computer simulation of closed loop motion control systems is required.

Technical Engineer - Develop many items associated with a magneto-optic drive: optical head assembly, actuator and carriage mechanism, disc retrieval system, packaging, and thermal analysis. Direct the error budget analysis in the areas of tracking, optical registration, system dynamics and environmental effects. Must be capable of structural and vibrational analysis using FEM and modal techniques; design experience with positional control systems and high track density recording devices is required.

Optical Engineer - Develop an optical head assembly for a magneto-optic drive; develop the system and device specifications for the LASER, collimator, and focusing/tracking data optics and detectors. Familiarity with with Fourier Optical Analysis, diffraction theory for high NA lens systems, Kerr/Faraday effects and optically active media required. Recent experience in the development of a head for an optical disc system is preferred.

Electrical Engineer (2 openings) - Participate in developing the architecture of an optical disc drive and its controller. Play a major role in directing the efforts of supporting engineers. Familiarity with the hardware/firmware parameters associated with optical or Winchester disc drives required. Experience with a microprocessor based controller, error correction and detection techniques, data path design, digital signal interfaces, and buffer management techniques expected. A combination of technical and leadership skills required. Recent experience in the design of state of the art controllers for magnetic tape or disc subsystems utilizing LSI tools is preferred.

Read/Write Engineer - Develop the read/write channels found in a magneto-optic disc using your experience with recording channel design, AGC amplifiers, error budget calculations, computer simulation, and data detection/separation. Bridge the gap between the optical, mechanical, and servo characteristics of the optical drive. Must be a self starter with technical skills in high density magnetic recording. Experience required in the design and computer simulation of high frequency amplifiers, phase locked loops, and equalization filters.

VOLUME PRODUCTS DIVISION

Volume Division is responsible for development and manufacture of terminals, printers, workstations and other peripheral equipment.

DEVELOPMENT

Refer Candidates to:

**Bonita Cox
Durham, N.H.**

Extension 6145 (Tie Line 235)

CEO-COX B:DUR01

Senior Digital Engineer - Develop and qualify add-on products for the microcomputers developed within VPD. BSEE, MS preferred. 4 to 6 years in the design of Communication/Memory or other functional add-ons to microcomputers.

Diagnostic Engineer - Develop diagnostics for terminals and microcomputer products. BSEE/BSCS, master's preferred. 1-3 years in diagnostics or low level software development.

Principal Engineer/Industrial Design - Lead engineer for industrial design group. BS in industrial design, master's preferred. 6 to 10 years in industrial design of terminal, microcomputers or computer products (electronics).

Engineer - Logic design for microcomputer. BSEE, master's preferred. 2 to 4 years in terminal or microcomputer logic design.

Sr. Engineer/Digital - Design the logic circuitry for terminals and microcomputers. BSEE, master's preferred. 4 to 8 years in logic design for terminals or microcomputers.

Principal Engineer/Digital - Involvement in the digital design of terminal and microcomputer products. BSEE, master's preferred. 8 to 12 years designing logic circuitry for terminals or microcomputers.

Section Manager, Systems/Analog - Manage a group of power supply, EMC and CRT/video circuit design engineers. BSEE, master's preferred. 8 to 12 years in analog design, 2 years of supervisory experience.

Principal Engineer/Analog - Design power and CRT circuitry. BSEE, master's preferred. 8 to 12 years in switching power supplies, or CRT/video circuitry.

Senior Engineer/Analog - Design power or EMC or CRT/video circuitry for volume products. BSEE, master's preferred. 4 to 8 years in one of the fields of EMC, switching and linear power or CRT/video circuitry.

Engineer/Analog - Assist in the design of CRT/video circuitry. BSEE, master's preferred 2 years in CRT/Video circuitry.

MANUFACTURING

Refer Candidates to:

**Bonita Cox
Durham, N.H.**

Extension 6145 (Tie Line 235)

CEO-COX B:DUR01

Senior Industrial Engineer - Coordinate the activities of industrial engineers in the development and maintenance of assembly, test and automatic machine processors. Interface with Advance Manufacturing Engineering, Production Design Engineering and assembly operations. BSIE OR 4 TO 6 years experience as an industrial engineer.

Test Engineers - Ensure implementation of integrated test plans for terminal, workstation and printer products. Work with R&D to ensure manufacturability relative to existing and future test technologies. BSEE or MSEE. 4 to 6 years experience.

Quality Assurance Reliability Engineer - Responsible for quality programs and reliability on computer peripheral equipment. Will interface with international manufacturing facilities. BS in electrical engineering or related discipline. Minimum 6 years experience.

Senior Safety Engineer - Develop and implement plant safety and security programs to assure all employees a safe environment. Knowledge of state (New Hampshire) and federal regulations and applicable OSHA guidelines. Bachelor's degree in related discipline. 4 to 6 years experience.

Product Cost Analyst - Perform product costing functions; interface with suppliers, plants; and assure compliance to cost budgets. Bachelor's in business administration, finance, accounting or related discipline. 4 to 6 years experience.

Process Engineer - Work with marketing and development groups to ensure that product designs are optimized for available manufacturing technologies. Apply value engineering techniques and cost/benefit analysis to minimize product cost. Research state-of-the-art manufacturing technologies to accommodate future product generations. BS in industrial or mechanical engineering. 4 to 6 years manufacturing engineering experience.

N A S D

NORTH AMERICAN SALES DIVISION

Positions are open in Sales and Systems Engineering throughout the country. If you have a candidate who meets the requirements of any of the positions, please submit resume, mini-application or application with geographic preferences to any of the contacts below.

Refer Candidates to:
Sales/Systems
Corporate Employment
MS A237 in Westboro

NASD Human Resources Manager
Data General Corporation
1500 Rosecrans Avenue
Manhattan Beach, CA 90266

NASD Human Resources Manager
Data General Corporation
1501 Woodfield Road
Schaumburg, IL 60195

NASD Human Resources Manager
Data General Corporation
3617 Parkway Lane
Norcross, GA 30092

NASD Human Resources Manager
Data General Corporation
757 Third Avenue
New York, NY 10017

SALES

Sales Representatives - Office Automation, Technical and OEM sales - Identify prospective customers; qualify leads; make sales calls; create a good working relationship between customers and Data General in order to meet specific sales goals. Technical degree preferred or proven commercial sales experience. 2 plus years of computer sales experience.

Branch Sales Manager - Manage a group of 6 to 12 sales representatives, defining goals, territories and assignments. Hire, train, and career counsel experienced sales representatives and sales trainees. Coordinate sales support with branch systems support organization. Technical degree preferred. 8 to 10 years of computer sales experience. Management experience.

SYSTEMS ENGINEERING

Systems Engineers - As part of the Sales team, provide technical support to the Sales force and function as a technical consultant to the customer. Pre and post sales responsibilities include: sales calls, demonstrations and presentations, problem solving, provide optimum system performance to customers.

Bachelor's degrees in electrical engineering, computer science or related field, Master's degree preferred.

Representative Level - 1 to 3 years of data processing or systems engineering experience.

Senior level - 3 to 6 years experience.

Specialist level - 6 to 9 years experience.

Consultant level - more than 9 years experience.

Branch Systems Engineering Manager - As part of the Sales team, provide management and technical direction to Systems Engineering staff; function as a focal point for area and corporate technical resources and issues; working knowledge of entire Data General product line; budget responsibilities; polished presentation and writing skills. Bachelor's degree or equivalent in a technical discipline. MBA preferred. 8 to 10 years of data processing or Systems Engineering experience PLUS two years in a leadership/supervisory role.

Regional Systems Engineering Manager - To manage the region's Systems Engineering resources to meet business goals; effectively communicate to technical staff; operational and strategic planning; set operating policies within region; career planning; staffing. Bachelor's degree or equivalent in a technical discipline. MBA preferred. 8 to 10 years of data processing or systems engineering experience PLUS three years of management and budgetary experience.

Area Technical Services Manager - To manage SE specialists and consultants; provide high level technical services to the Sales force and systems engineers; implement and coordinate programs; and manage allocation of technical resources to close sales and attain goals. Bachelor's degree in technical discipline. MBA preferred. 8 to 10 years of progressive Systems Engineering experience (through Specialist level) PLUS one to two years of program management and more than two years of related management experience.

Area Systems Engineering Manager - To provide consistency across the Systems Engineering organization; ensure competent technical support to the Sales force; meet assigned business goals assigned at an area level; develop and integrate strategic plans; evaluate and approve operational plans and approve budgets from subordinate managers. Bachelor's degree or equivalent in a technical discipline. MBA preferred. 10 to 15 years of progressively related data processing or Systems Engineering experience PLUS four years management experience. Staff and vendor experience preferred.

Investing In People To Make Equal
Employment Opportunity A Reality
November, 1986

Continued from page 2

of material already may have changed. It also was costly to produce and distribute microfiche."

Now, says Harvey, employees worldwide can have access to the bill of material database, giving them up-to-date information on Data General product models, assemblies and components. "Besides the time savings," relates Harvey, "this system will save the company thousands of dollars in 1986, alone."

IMG has produced a videotape describing the design and features of this new system. If you use product-related information and would like to view the tape, contact Nancy Forrister in Southboro at extension 8071, tie line 220, or via CEO at Forrister N:WEBO08.

Tyrrell Video To Be Presented

A one-hour British television special about the Data General Team Tyrrell racing group will be shown in the Westboro cafeteria annex next Tuesday, Wednesday and Thursday at 11 a.m. and 12 p.m.

The video chronicles the team from its inception through its racing stages and features several Data General-Europe employees. It is narrated by British rock musician Nick Mason, formerly of the band Pink Floyd. Nick also contributed to the musical score.

Director Resigns From Data General Board

Allan Gordon has resigned from his position as a director of Data General so that he may devote more time to his other business responsibilities. Allan had been a member of the company's board of directors for 12 years. He is managing partner of Gordon, Haskett & Company, an investment banking firm located in Southport, Connecticut.

Benefits

Savings And Investment Deadline Dates

Two important dates are coming up for employees in connection with the Data General Savings and Investment Plan.

November 26 is the final day to apply for loans or hardship withdrawals in order to receive them in 1986. Applications must be in the Corporate Benefits office at Westboro by that date.

Any employee who wants to receive a Savings and Investment Plan loan before the end of 1986 must:

1. repay any outstanding loan balance first; and
2. have a completed local application in the Corporate Benefits department in Westboro on or before November 26.

Hardship withdrawal requests received by November 26 will be acted upon and, if approved, issued before December 31, 1986. The hardship (e.g. home purchase, college education, etc.), however, must be current. Withdrawals cannot be made in anticipation of home purchase or future college expenses.

December 12 is the date by which any employee who wishes to change the contribution percentage, change the funds to which contributions are allocated, or move money between funds as of January 1, 1987 must do so. These changes can all be made by completing an Enrollment/Change form. The form must be returned to Corporate Benefits or a local Benefits administrator. Forms are available at Benefits and Human Resources offices.

Activities

Take To The Slopes

If you want to ski some of the best slopes in New England, then you will be happy to know that space is still available for the following ski trips to Maine, New Hampshire and Vermont:

Sunday River, Maine - January 9-11. This trip includes a ski club party enroute; two-nights lodging at Sunday River slopeside condominiums with complete kitchen facilities; and free mountain shuttles. Prices for accommodations are: quad - \$138; triple - \$150; and double - \$168. A \$75 deposit is due immediately.

Waterville Valley, New Hampshire - January 16-18. The trip includes two-nights lodging at the Black Bear Lodge; indoor/outdoor pool/hot tub; shuttles to and from the mountain; a wine and cheese party; access to an indoor sports center with tennis courts; and access to an indoor ice-skating rink. The cost for maximum occupancy is \$149; double accommodations are \$139. A \$75 deposit is due immediately.

Jay Peak, Vermont - February 6-8. Included on this trip are a ski club party enroute; two-nights lodging at the Alpine Haven chalets; complete kitchen facilities; and shuttles to and from the mountain. All units are double occupancy at a cost of \$127. A \$75 deposit is due immediately.

All trips include round-trip bus transportation, two all-day lift passes, taxes and gratuities, and snow guarantee.

If you would like to attend any of these trips, registration forms can be obtained by writing to DATA GENERAL SKI CLUB - TRIPS at Mail Stop 6-5 in Southboro, or by calling Debbie Hixson in Westboro at extension 4973 (after 4:00 p.m.). All checks should be made payable to the Data General Ski Club, and one check should be sent per trip.

MARKETPLACE

CARPOOL

Carpool, looking to join existing or form new carpool, Brookline to Webbo/Sobo, flex, Katz, x7093.

FOR RENT

Condominium, Worcester/Millbury, new, 2 bdrm, 2 baths, fully appl, wash/dry hookup, storage, avail Nov, \$625 + utils, 481-5445 (Marlboro).

Apartment, Westboro, 7 rm spacious apt, near center of town, 2 car garage, \$780/mo incl heat, 481-4169 (Southboro).

Condominium, recently renovated, 2 bdrm, 6-unit building, priv dead-end street, eat-in kitchen, w/w carpet, AC, \$620/mo + utils, 429-1533 (Holliston).

House, 3+ bdrms, 3 baths, 2 fireplaces, 2 car garage, wash/dry, 393-9832 (Northboro).

Sublet, Windsor Ridge Townhouse, Dec 1 - Mar 1, 2 bdrm, 1 1/2 baths, 3 mins to DG Webbo, \$684/mo, 754-1368 (Worcester).

Apartment, 3 bdrm, appl, recently remodeled, avail 1/1/87, \$675/mo incl util, 842-1804 (Shrewsbury).

WANTED

Roommate, to share 2 bdrm apt, near Mass Pike & Rt 128, \$350/mo + utils, 894-3115 (Waltham).

Wayside Club Membership Initiation, 263-8658 (Boxboro).

Skiers, to share large contemporary 3 bdrm house, jacuzzi, near Killington, 267-6695 (Boston).

Roommate, to share 2 bdrm apt, 10 min to DG Webbo, pool, tennis, exercise rm, non-smoker, \$367/mo, 842-4710 (Shrewsbury).

Records, looking for old, new, rock & pop records, 365-5054 (Clinton).

FOR SALE

Items, 20 cu ft Sears refrigerator, \$250; 2 60" love seats, \$50/ea; 19" Sears b&w tv, \$50; 6000 BTU AC, \$75; electronic air cleaner, \$20; humidifier, \$20, 533-7898 (Medway).

Items, Ski boots, Koflach 450 Airfit racing, women's size 7 1/2-8 1/2, red, rear entry, \$115; Air conditioner, Freidrich, installs in window, large capacity, \$115, 393-6603 (Northboro).

Items, Tektronics model 543B oscilloscope, 100ns trig sweep, camera mount, model 1A2 10MHZ dual trace plug in, model H 10MHZ plug in, used in mil optics testing, \$500; Fender Bassman 50 amp, \$100, 536-2616 (Boston).

Escort Radar Detector, used 9 mos, carry case, all accessories, \$200/BO, 543-4539 (Foxboro).

Condominium, 3 bdrm, \$74,900, (401) 766-7545 (Woonsocket, RI).

Items, 35mm Canon AE-1 program camera w/standard lens, \$175; Canon speedlite flash, 199A, \$75, \$200/both, 366-1818 (Westboro).

Tires, 2 Goodyear VR50-255, 16" low profile Corvette tires, \$150/BO, 797-3415 (Worcester).

Skis, K2 710, 180cm w/Tyrollia 360 bindings, \$75; Rossignol Strato, 190cm w/Salomon 222 bindings, \$75, 874-0396 (Westminster).

Items, Super 8 camera & viewer, \$175; 19" Sony Trinitron, remote control, \$400, 655-9708 (Natick).

Printer, Model 4434, 160 CPS, dot-matrix printer, friction & form feed, 924-0481 (Watertown).

Items, Commodore 64 software & hardware; computer supplies & software for IBM & compatibles, 842-7145 (Shrewsbury).

Vectrex Video Arcade System, w/built-in screen, no tv required, incl light pen, extra game controller, game cartridges, used once, \$175/BO, 435-5339 (Hopkinton).

Diamond Ring, .25K, 14K gold, licensed, appraised at \$400, \$250/BO, 870-0577 (Westboro).

Sliding Glass Door, 6 ft, \$50/BO, 655-7062 (Natick).

Super Heat Fireplace Insert, fits openings up to 50" w X 32" h, 13" deep, dual elec heat blowers, black metal w/red brick, \$225/BO, 366-0821 (Westboro).

Kitchen Table, maple wood w/formica top, \$30, 839-2311 (Grafton).

Caloric Double Gas Oven, 30", self-clean, brown, ductless fan incl, \$40/BO, 875-3389 (Framingham).

Items, 6 drawer metal desk, BO; coal/wood stove, used 2 winters, made by Surdiac, BO, 839-6961 (Grafton).

Items, Living rm drapes, gold, \$65/BO; kitchen ceiling fixture, green, 5 bulbs, \$25/BO, 655-3039 (Natick).

Black Labrador Retriever Puppies, all shots, 3 mos old, \$125, 473-7132 (Mendon).

AUTOS

'68 Dodge Dart GT, 2 dr, hardtop, slant 6, \$650, 870-0577 (Westboro).

'71 Chevelle, 55K mi, new exhaust, mag tires, snow tires, \$2000/BO, 366-4241 (Westboro).

'73 Plymouth Valiant, blue, 4 dr, manual, PS, slant 6, Rusty Jones, AM/FM, service manuals, 84K mi, incl mounted snows, \$700/BO, 435-5339 (Hopkinton).

'77 Mazda GLC, hatch, 2 dr, 4 spd, AM/FM/Cassette, new shocks, radials, axle, & starter, 86K mi, \$1400/BO, 366-0805 (Westboro).

'78 Chevrolet Camaro, auto, radials, AM/FM, \$1600/BO, 568-8818 (Hudson).

'78 Suzuki GS1000E, very low mi, well maintained, always garaged, 1 yr old plexifairing, \$1800/BO, 883-8132 (Bellingham).

'79 Pinto, 105K mi, auto, needs work, \$500/BO, 251-2810 (N. Chelmsford).

'80 Lincoln Continental Mark VI, loaded w/options, incl moonroof, AM/FM/CB, leather, more, \$5800, 842-6767 (Shrewsbury).

'81 Chevrolet Citation Hatchback, V6, 4 dr, auto, AC, pwr locks, AM/FM, bucket seats, \$2600/BO, 782-3420 (Brighton).

'82 Chevette, 4 spd, 50K mi, AM/FM, more, \$2100/BO, 839-6961 (Grafton).

'82 320i BMW, 5 spd, loaded, 40K mi, BO, 568-8818 (Hudson).

'83 Chevrolet Malibu, 6 cyl, cruise, AC, PS/PB, AM/FM, 60K mi, \$3750, call collect 540-3176 (Falmouth).

'84 Pontiac Fiero SE, red, 4 spd, AM/FM, AC, tilt, Chapman lock, 26K mi, \$7000, 799-6098 (Worcester).

'84 BMW 318i, blk/blk, 5 spd, loaded, 23K mi, 6 mos factory warranty, \$13,500, 366-1818 (Westboro).

'84 Mazda RX7, silver, snrf, AM/FM/Cassette, std, 48K mi, \$8800, 528-9947 (Franklin).

'86 Pontiac Fiero SE, 6 cyl, lock/ID numbers, loaded, 12K mi, \$13,500 (413) 245-9400 (Holland).

Hours

Westboro Cafeteria, full breakfast, 6:30 a.m. - 10:00 a.m.; lunch, 11:30 a.m. - 1:30 p.m.; open from 6:30 a.m. - 3:00 p.m. for beverages.

Pizzeria, serving from 10:00 a.m. - 2:00 p.m.

Pumpernickel's Deli, Coffee & pastries, 6:30 a.m. - 7:30 p.m.; full breakfast, 6:30 a.m. - 10 a.m.; deli lunch, 11 a.m. - 2 p.m.; Take-out, 3 p.m. - 6:30 p.m.; dinner, 5 p.m. - 7:30 p.m.

Milford, full breakfast, 6:30 a.m. - 8:30 a.m.; lunch, 11:15 a.m. - 1:15 p.m.; open from 6:30 a.m. - 3:15 p.m. for beverages.

Southboro, full breakfast, 6:30 a.m. - 10:00 a.m.; lunch, 11:15 a.m. - 1:00 p.m.; open from 6:30 a.m. - 3:00 p.m. for beverages.

MINI NEWS

All ads must be submitted in writing and include employee's name, home phone and extension number. Ads will be stamped with the time and date as they are received and will run on a first come basis. Send ads to Laureen Sasseville, MS A-235 or CEO SASSEVILLE L:MSIS03

Mini News is published weekly for the employees of Data General-Westboro. Material may be submitted for publication to MS A235. Data General - An Equal Opportunity Employer.