SANTA BARBARA COMMUNITY COLLEGE DISTRICT
721 CLIFF DRIVE
SANTA BARBARA, CALIFORNIA

TO:

SUBJECT: Invitation to bid on computer equipment

Enclosed please find bid documents to be used in submitting bids on a Computer System for Santa Barbara Community College District. If your firm is interested please note the following:

1. Bid closing is 2:00 p.m., DATE. Bids will be opened and tabulated in the Business Office, 721 Cliff Drive, Santa Barbara, California immediately thereafter.

2. Bids are subject to acceptance within 60 days from the date of opening thereof. No bid may be withdrawn during that 60-day period.

3. Bids must be submitted in sealed envelopes clearly marked on the outside "Sealed Bid for Computer System, 2:00 p.m., DATE."

4. The exact location of the receiving point is shown in the bid specifications. Bids must show the earliest delivery date.

5. Notification of award will be made in writing to successful bidders at the earliest convenient date.

6. The Board of Trustees retains the right to make awards according to the best interests of the district.

7. The Board of Trustees reserves the right to reject any or all bids, to determine which is the best bid, and to waive any informality or irregularity in any bid.

Signed: Board of Trustees
Santa Barbara Community College District.

By: David Mertes, President
NOTICE TO BIDDERS

Notice is hereby given that the Board of Trustees, Santa Barbara Community College District, 721 Cliff Dr., Santa Barbara, CA, Santa Barbara County, will receive sealed bids up to, but no later than 2:00 p.m., DATE, in the Business Office, Santa Barbara Community College, 721 Cliff Dr., Santa Barbara, CA. Bids will be opened and publicly read aloud immediately after the closing time specified above. Bids will be received for the District's purchase or lease-purchase of a computer system.

Detailed information about the computer system and peripheral equipment desired may be secured by contacting the Purchasing Department, Santa Barbara Community College, 721 Cliff Dr., Santa Barbara, CA. or at 965-0581 Extension 361.

Bids must be submitted in duplicate. Unit and total prices must be shown. Prices shown must include delivery F.O.B., 721 Cliff Dr., Santa Barbara, CA.

Bids are subject to acceptance within 60 days after the date of opening thereof. No bid may be withdrawn during the 60-day period.

Each bid must be clearly marked on the outside "Sealed Bid for Computer System, 2:00 p.m., DATE."

The Board of Trustees reserves the right to reject any or all bids, to determine which is the best bid, and to waive any irregularity in any bid.

Signed: Board of Trustees
Santa Barbara Community College District

By: David Mertes, President
I. INTRODUCTION

Santa Barbara Community College District is embarking on a plan to provide computing resources to all instruction departments in the campus community. In order to accomplish this task as efficiently and effectively as possible, the College needs expanded computer resources. The final decision will be based on the bids resulting from this specification. Therefore, all bids should be carefully and thoroughly prepared so that we will be able to objectively select the proper equipment. Questions regarding this specification should be directed to the authorized College representative:

Mr. Ralph J. Schiferl  
Santa Barbara Community College  
721 Cliff Dr.  
Santa Barbara, CA 93109  
(805) 965-0581 ext. 402
II. GENERAL PLAN OF ACQUISITION

A. Competitive Bid

This is a system acquisition. The College is seeking a vendor who can provide integrated hardware and system software, support and maintenance for both.

B. Criteria

The criteria which the selection committee shall use to frame its recommendation include, but are not limited to, the following listed items.

1. Compliance with this request for bids.

2. Ability of the proposed system to meet the College's stated needs, specifically:
   - Capacity of equipment proposed
   - Expansion capability of equipment proposed
   - Availability and quality of maintenance and support
   - Transferability of existing instructional programs
   - Availability of educational software

3. Life-cycle cost of procurement.

4. Demonstrated success in installations similar to that of the College.

5. Availability and delivery schedule.

Sections V and VI contain specific requirements for the bidder and his proposed system. These sections are required for two purposes. First, to specify to the prospective bidder in more detail what is being sought by the College; second, and equally important, to insure the objective and uniform comparison of all proposals. Therefore, it is in the bidder's best interest to respond to the sections on a point-for-point basis in order to facilitate comparison and to minimize the amount of interpretation (with possible misunderstanding) by the selection committee in order to evaluate the proposal. For this reason, it is suggested that all no-cost items be listed.

It is important to note, however, that sections V and VI are presented solely for the purposes of establishing a standard for comparison and are not intended to preclude from bidding any vendor who feels that he can substantially meet these requirements. Vendors may propose any equipment and software comprising a system substantially meeting the requirements specified; however, each deviation from requirements set forth herein must be clearly stated and explained in detail. Vendors may submit more than one proposal. Evaluations of proposed deviations from stated requirements will be the sole responsibility of the selection committee. All items bid must be available, operational, and fully demonstrable to college personnel at the time of the bid opening.
C. Evaluation

Each potential vendor offers goods and services somewhat different from others. In evaluating the proposals, therefore, it is very important for the bidder to be very specific about the functions he shall/shall not perform.

In order to partially evaluate the ability of a bidder to provide the system he proposes, a list should be provided as a part of the proposal identifying some California installations similar in size to Santa Barbara Community College which use the proposed system for applications like those of the College. Please include a contact's name, title, and phone number.

The contract will be awarded to the responsible bidder who, in judgement of the College, makes the best overall proposal. The College reserves the right to reject any or all bids and to sit and act as sole judge on the merit and quality of the material, or equipment, or service offered, and may accept whatever bid is deemed to be in the best interest of the College.
III. SPECIFIC COMPUTING REQUIREMENTS

Bidders are cautioned that the College is a tax-supported agency particularly interested in acquiring a computer system as specified at the most efficient level possible consistent with its limited resources. The College's hardware and software costs presently are approximately $100,000 per year. This is for the computer system used jointly for administrative data processing and computer science instruction.

Current Hardware and Software

The College currently leases a Burroughs B2800 computer for combined administrative and instruction use. It has primary storage of 500 thousand bytes, disk storage of approximately 500 million bytes on six spindles, two 1600 BPI tape drives, a 600 card per minute reader and a 750 line per minute printer. A B874 computer acts as a front-end processor for a limited network.

In addition the College owns a Data General Nova computer with 64 thousand bytes of storage. It is used exclusively to teach BASIC programming using eight Lear Siegler CRT’s and a Teletype. The College also has a Data General Eclipse C-300 computer with 144 thousand bytes of storage and a ten million byte cartridge disk drive. An 800 BPI tape drive and a Gould 5000 printer/plotter are also on this system.

The Computer Science department uses these computers to provide instruction in BASIC, COBOL, FORTRAN, Assembler, and RPG. A limited amount of Computer Assisted Instruction is accomplished, mostly with BASIC programs. The College has approximately 300 instruction programs written in BASIC.
IV. GENERAL SPECIFICATIONS

A. Authorized College Representative.

Mr. Ralph J. Schiferl  
Chairman, Computer Science Department

The contract shall be under the direction and subject to the authorized College Representative or his designated representative.

B. Scope of the Contract

The scope of the contract is either purchase or lease-purchase for furnishing all software and hardware to provide a computer system, line printer, hook-up, cables for terminals, per specifications herein. Equipment must be new and unused.

System purchase price, five-year lease-purchase contract price, or other financing method, shall be quoted.

If a lease-purchase price is provided, submit a schedule of sixty (60) monthly payments. This schedule shall show the principle, interest, sales tax and any other itemized charge payable on a per month basis until the system is wholly owned by the College.

C. Non-appropriation Termination Rider

A signed non-appropriation termination rider shall be made a part of each vendor's response. This will allow the College to terminate the lease at any fiscal year-end with 30 days prior written notice, for any one of the following reasons:

1. The college has exhausted all funds legally available for payments to become due under this lease; or,
2. Funds which have been appropriated are withheld or are not made available to the College; or,
3. An appropriation of funds for the next fiscal year is made but prior to actual release such appropriation is withdrawn.

D. Production Models

A production model of each piece (type and model) of equipment, as listed in the bid form must be installed and operating at a customer's site and be available for demonstration to the College.

E. Transportation Charges

All transportation charges, rigging, drayage, packing cases, incidental costs, etc., and installation charges shall be bid as a separate item.

F. Delivery of Equipment
All equipment shall be delivered to Santa Barbara City College and installed in the room(s) as indicated by the College representative. All units of equipment shall be inspected and serviced by the vendor at the time of delivery. The equipment shall be connected, diagnostically checked out, software operating system configured, software library loaded, and certified operationally ready for use by the vendor. The vendor shall then turn the installation over to the College for inspection and acceptance. It shall be the vendor’s responsibility to inspect the installation site and notify the College of any necessary modifications required for the bid systems use.

6. Installation Site

The system and related equipment will be installed in the Humanities building, room H-252 on the College campus.

7. Maintenance Service

Necessary service and parts to maintain the equipment and required software in good operating condition shall be provided by the vendor; such charges shall be specified in the monthly maintenance charges schedule. The vendor shall specify in his proposal the service facility location and guaranteed response time for service calls. He will also specify a preventive maintenance schedule.

For maintenance purposes the vendor will have access to the installed equipment during the College hours from 8:00 a.m. to 9:00 p.m., Monday through Thursday and 8:00 a.m. to 4:00 p.m. Friday. The vendor shall provide a local telephone number to report service calls, or authorize collect long distance calls.

All required software shall be maintained by vendor to include updates, deficiency identification and repair, and documentation. Any charges for this level of support shall be identified in the maintenance schedule. The district may choose to terminate software maintenance service at any time.

8. Documentation

The vendor will include with the bid two (2) sets of manuals describing the proposed hardware and software.

9. Warranties

The vendor will list the type and duration of any and all warranties for the entire system.
V. HARDWARE SPECIFICATIONS

A. General Requirements

1. The College requires the equipment bid in accordance with the specifications below to be new equipment of current manufacture. All equipment bid must be fully demonstrable in the configuration bid both from a hardware and system software viewpoint.

2. The specifications below shall be considered minimum guidelines for performance and capabilities. These are the College's best estimate of what is minimally required to meet the College's instructional needs for five years. Vendors should bid equipment that at least meets the minimum or explain why the minimum cannot be met and how it will affect overall system performance. The system needs outlined in part B of this section will be the minimum configuration at the time of initial purchase, and must be expandable to a greater capacity at a later date as indicated in part B. Initially, the system must support 32 terminals with expansion capability for an additional 32 terminals.

3. Hardware bid may be greater than asked for if required by the system to meet software requirements, or if the vendor considers that such an increment will place them in a more competitive position. If this the case, state which components are required by system software that is beyond College's minimum requirements.

4. All hardware proposed must meet UL and California OSHA standards.

5. A vendor may choose to recommend the continued use of College owned equipment as part of the proposed system and provide the appropriate interfaces.

B. System Components

1. Central Processor
   a. Main memory of one million bytes, error detection and correction. Main memory must be expandable to at least two million bytes.
   b. Hardware instructions shall include floating point arithmetic and multiply divide.

2. System Console CRT Unit

3. Disk Storage
   a. 100 megabytes capacity removable diskpack drive, with at least one pack supplied.
   b. Dual flexible disk drive unit for student use, of at least 256K bytes capacity on each drive.

4. Magnetic Tape
   a. One tape unit shall be required.
   b. Industry compatible 9-track, 800 BPI, 75-IPS unit, or a unit of equal or greater data transfer rate.
5. Line Printer
   a. Chain, or band mechanism required.
   b. 132 print position required.
   c. Must print at a rate of 300 LPM minimum.
   d. Must handle common three part forms.
   e. Movable tractors for varying forms width required.

6. Terminal Controller(s) asynchronous
   a. Must supply connector (port) capacity for at least
      thirty-two (32) terminals, and be capable of expanding
      to sixty-four (64) ports.
   b. All connections shall meet EIA RS-232C specifications so
      that existing terminals can be connected to the system and so
      that additional terminals from other hardware vendors will
      interface.
   c. Line code shall be ASCII.
   d. Line speeds shall vary from 110 baud to at least 4800 baud
      on all ports.
   e. State cost of expanding to 64 terminal ports, and state maximum
      number of ports supported.
   f. Each line of the asynchronous controllers must be capable of
      supporting and auto-answer modem.

7. Interface to plotter
   a. The system hardware must interface to the Colleges existing Gould
      5000 printer/plotter.

8. Cables, Cabinets, and Accessories
   a. All miscellaneous cables, cabinets, and accessories required to
      integrate and install a fully operational system will be
      included in the bid. Items not bid and later found necessary for
      the successful operation of the system, as specified, will
      be provided by the vendor without charge to the College.
VI. SOFTWARE SPECIFICATIONS

A. General Requirements

1. The College will move from primarily a batch mode of operation in computer
   instruction to an online, timesharing mode of operation. The system will be
   used for instruction on a campus-wide basis, with use in the Computer Science
   dominating. The system software must be easily understood and used by
   non-technical personnel and students.

2. All system software requirements must be met by software that is fully
   supported by the vendor. User contributed software may be of interest to the
   College, but will not be the major criterion in software evaluation.

B. Operating System Software Requirements

1. The operating system must provide the following capabilities.
   a. Multiprogramming capabilities to simultaneously support all 64
      terminals in any mixture of applications/languages.
   b. System spooling of line printer outputs.
   c. Adequate system security must be provided.
   d. Disk file management shall be provided. Files created in
      one language will be accessible by programs written in
      any other language.
   e. User jobs will be protected from each other so that none
      can adversely affect the other.
   f. Sequential, random, and ISAM disk file organization
      will be supported.
   g. All terminal users shall be able to perform applications software
      development, initiate and interact with an executing
      program, and gain access and use of peripherals. Access to
      all languages on the system shall be a standard capability.
   h. A system wide accounting module will be present to manage
      and control users use of resources in terms of CPU time, disk
      storage, and access to system software.
   i. System security will be provided so that users can protect
      their files from unauthorized use or access by other users.
      Shared files and application software shall reside in public
      libraries or storage areas.
   j. The system must function with a minimum of operator
      attention.

C. Languages Processors

The following are required languages. (Compilers must be re-entrant)

1. COBOL Compiler - 1974 AMS standard COBOL is required.
   Report Writer module would be an advantage.

2. RPG Compiler (or interpreter) - Full RPG II level compiler
   (or interpreter) is required.
3. FORTRAN Compiler - FORTRAN IV level compiler is required.
4. BASIC interpreter and/or compiler is required.
5. Assembler or other machine dependent language processor is required.
6. A text editor is required.
7. Software to function with the Gould 5000 printer/plotter.

D. Utilities

The following are required:
1. Sort/Merge package.
2. Copy utilities - for example, disk-to-print, tape-to-disk, tape-to-print, etc., shall be provided.

E. Availability of additional software

1. List and price separately additional languages available, such as APL, PL/1, Pascal and others. This is for information only at this time.

2. List and price separately additional software systems or packages available for instructional purposes, such as SPSS, CAI author language, Word Processing, simulations and others.

3. A college financial systems package.