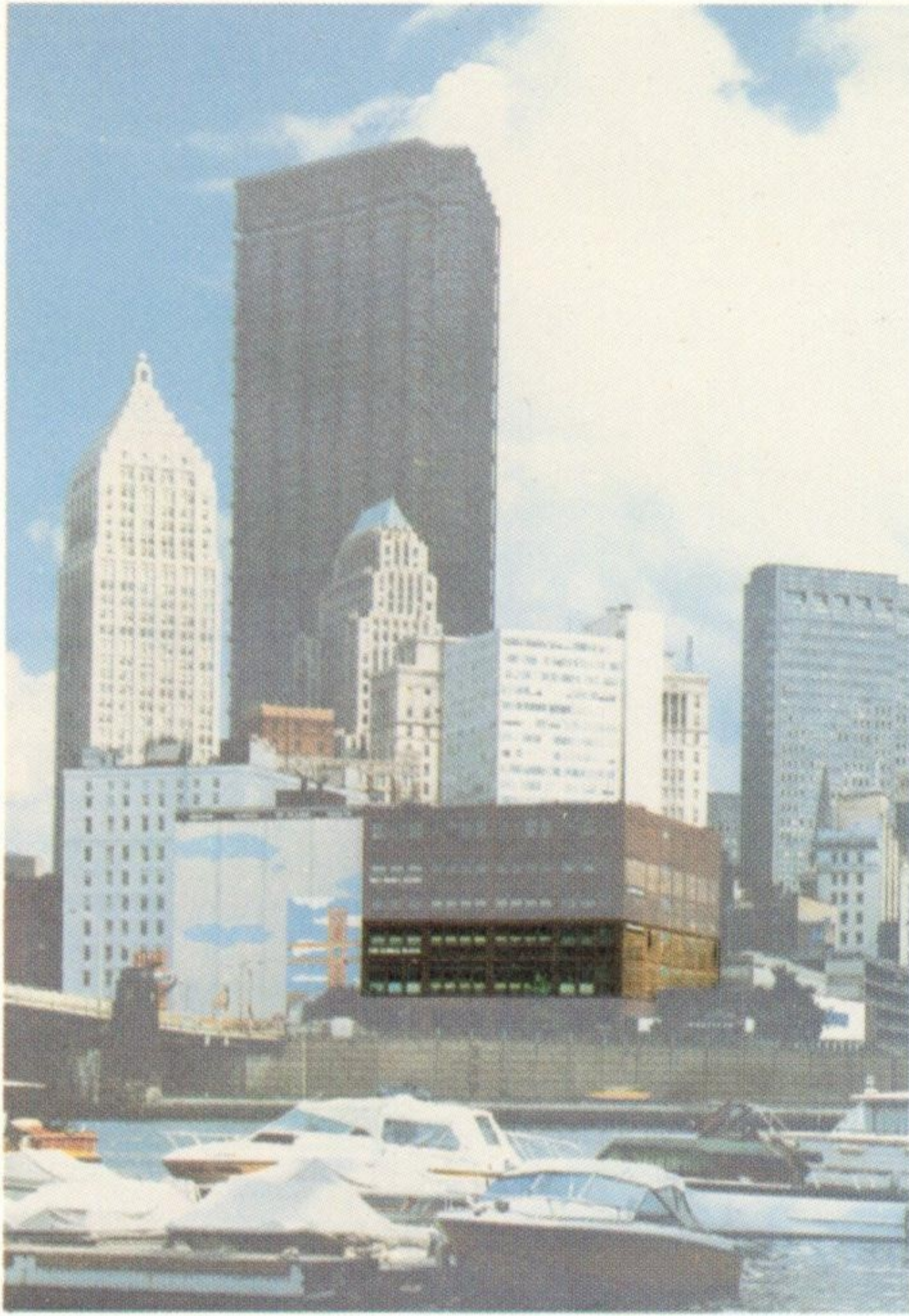


# PENN TECHNICAL INSTITUTE





Penn Tech, founded in 1947, occupies the second and third floors and shares a small part of the first floor of the building emphasized.

## PENN TECHNICAL INSTITUTE OFFERS

a post- high-school level of training in **ELECTRONICS** with application to:

- **COMPUTERS**
- **INDUSTRIAL ELECTRONICS**
- **ROBOTICS**
- **RADIO**
- **TELEVISION**
- **COMMUNICATIONS**

and offers various other electronics subjects to provide HIGH TECHNOLOGY TECHNICIANS for possible employment in government, business, industry and research. The training is intentionally broad to provide employment opportunities and because the various fields of electronics are so interrelated.

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## **DEVELOPMENT OF AN INDIVIDUAL BY EDUCATION IN ELECTRONICS**

generally leads to a more fruitful life for that individual, promotes his or her morale and intelligence, conserves human resources and efforts, aids in the production of wealth, and contributes to economic stability and progress.

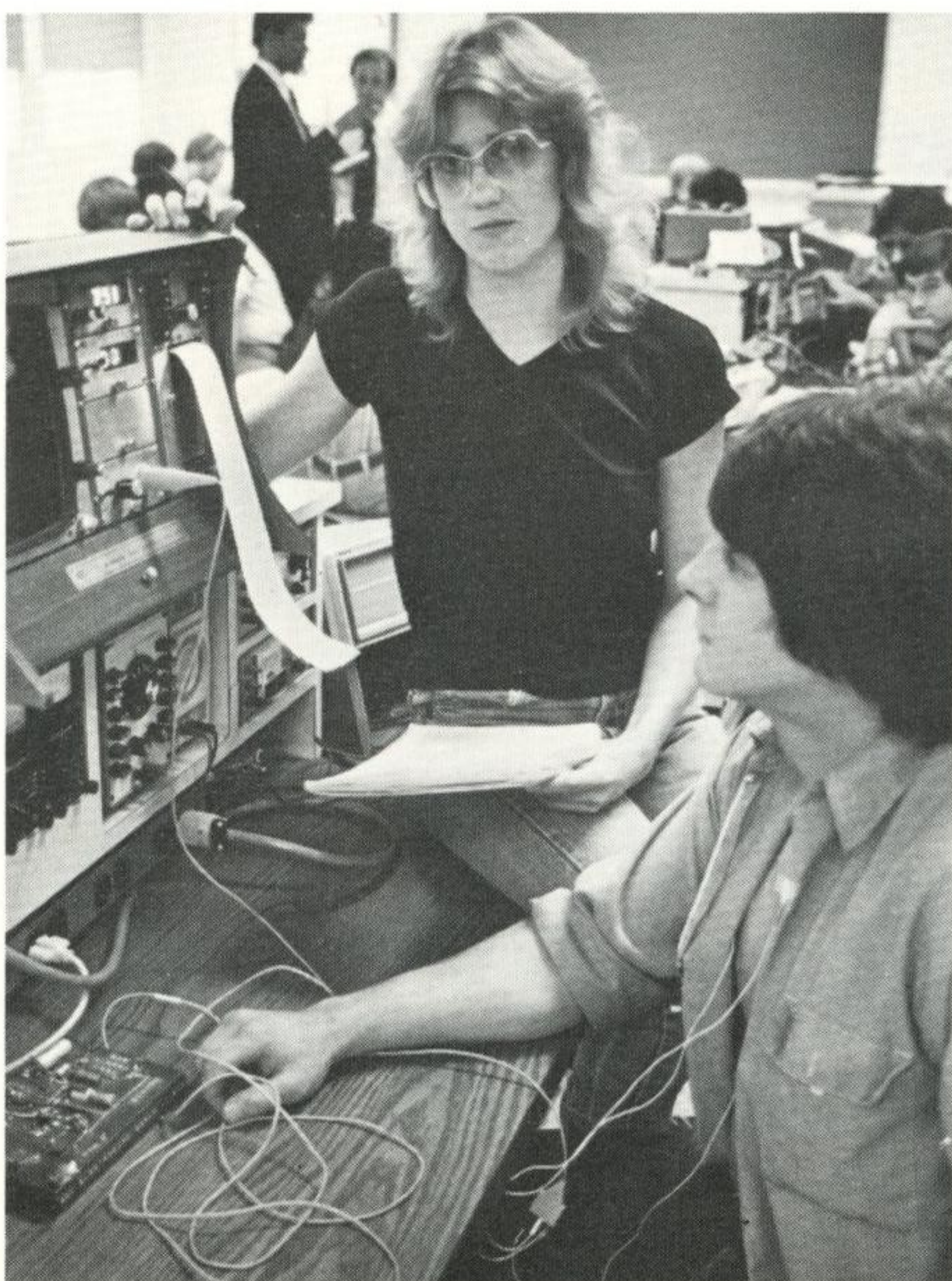
To aid the student in this development Penn Technical Institute:

1. Concerns itself with the student as a total human being who, as a graduate, will seek employment based on personality, experiences, and aspirations as well as technical training;
2. Provides training which fosters technical proficiency;
3. Engages the pupil in active participation in the learning process;
4. Encourages experimentation, questioning, evaluation;
5. Strives to provide pleasant associations with success, rather than frustrating experiences with failures;
6. Provides experiences through which the student can develop proper attitudes toward and adaptability to meeting obligations in an ordered society, as well as in his or her work environment.

From a practical point of view, this philosophy indicates that, since learning takes place within the student, the school is dedicated to helping the student to learn. Further, since the school is sensitive to the student's ultimate objective, employment, and the employer's needs, learning involves not only technical information, but the other qualities and attitudes that make up the total human being. Thus the student is made aware of the need for self-discipline, neat appearance, clear and concise writing, confident speech, cooperation, honesty, and the many other characteristics that the employer finds desirable in a good employee.

## **TYPICAL FUNCTIONS PERFORMED BY ELECTRONICS TECHNICIANS**

may include application, installation, testing, inspection, operation, maintenance, repair, development, and sales of technical equipment or processes. Technicians may work in industrial electronics, space electronics, communications, computers, robotics, instrumentation, avionics, medical or consumer electronics. Some may assist engineers and scientists in a great variety of projects and at all stages of production, from the origin of a product on a drawing board to its use by a consumer.



Students making stress measurements on electrocardiogram equipment.

## **THE OBJECTIVE OF THE PROGRAM IN ELECTRONICS TECHNOLOGY**

is to prepare a graduate who is employable as an electronics technician and can apply mathematical principles, methods and techniques to the design, construction, production, testing, maintenance and sales of electronics equipment, with a minimum of supervision. Specifically the graduate should be able to:

1. Analyze and solve technical problems
2. Write, prepare and interpret technical reports
3. Experiment, test and collect data
4. Maintain and repair equipment
5. Carry out certain functions of drafting
6. Assist in technical sales and consumer consultations
7. Perform tasks in a safe and efficient manner
8. Cooperate with others in good work habits and workmanship.

**ACCREDITED, AUTHORIZED, APPROVED, LICENSED.** Authorized by the Pennsylvania Department of Education to award the Associate in Specialized Technology degree. (Note: This is not generally a transfer degree.)

Accredited by the Accrediting Commission of the National Association of Trade and Technical Schools.

Licensed by the Pennsylvania State Board of Private Trade Schools.

Program approved for the training of veterans and war-orphans.

Approved for the training of state rehabilitation students; accepts qualified students from various state agencies directing rehabilitation.

Member of the State Insured Guarantee Loan Program.

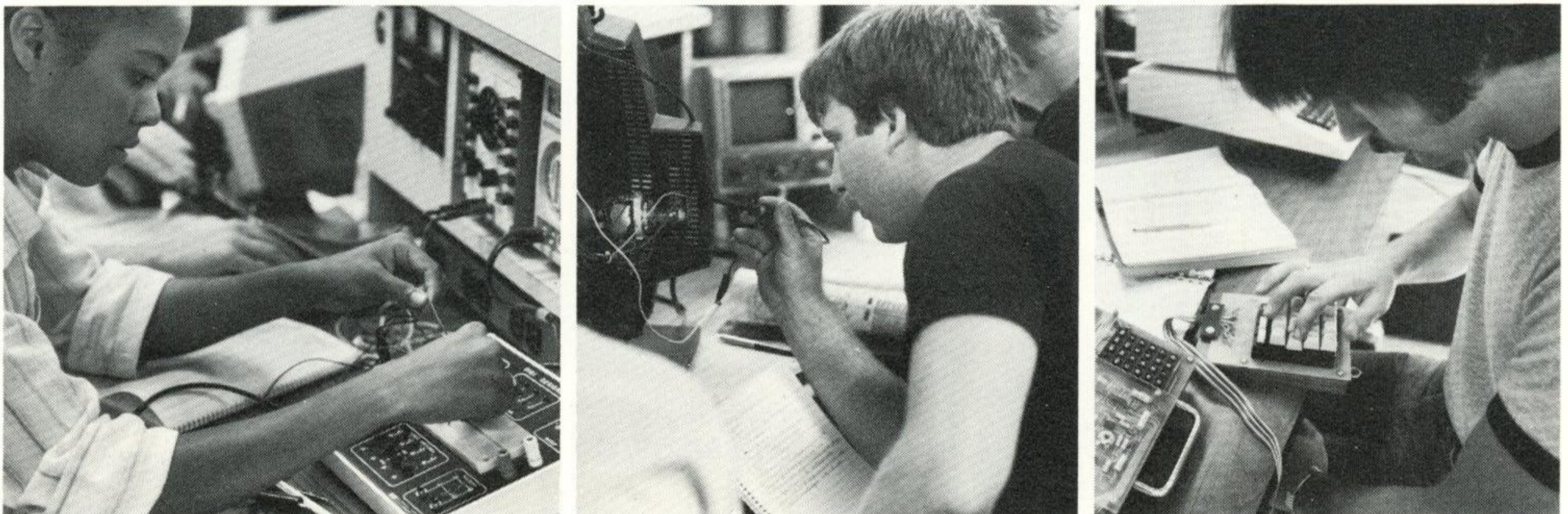
Member of the State Grant Program.

**THE SCHOOL IS LOCATED IN DOWNTOWN PITTSBURGH,** overlooking the Allegheny River. The building also houses Duff's Business Institute. Each school retains its own ownership, management and faculty.

The classrooms and laboratories are equipped with furniture, equipment, tools and training aids used to train electronics technicians.

A variety of educational, sports and entertainment facilities are within convenient distances.

**ANYONE INTERESTED IN THE OPERATION OF A TECHNICAL INSTITUTE** is invited to visit the school between 9 A.M. and 7:30 P.M. on Mondays, Wednesdays and Thursdays and 9 A.M. and 3:30 P.M. on Tuesdays and Fridays. (Please avoid the period 10:30 to 11:30 A.M.)



Laboratory work is essential and extensive. In each unit, what is learned in the classroom is tested in the lab so that the student progresses to more complex ideas and equipment in an orderly step-by-step fashion.

# FACTS FOR STUDENTS

**ADMISSION REQUIREMENTS ARE** a high school or Commonwealth Secondary diploma, one year of algebra (passing grade) and a satisfactory score on an entrance exam given at the school. Each applicant is considered on the basis of the entrance exam, education and interview, without regard to race, sex, color, national origin or handicap.

**APPLICANTS WITH PREVIOUS COMPARABLE TRAINING** may be admitted with advanced standing and their program shortened if the schooling, experience and the results of advanced standing examinations so warrant. These exams are generally waived for recent graduates of AVT electronics programs if their previous grades support such action.

**COST** (Effective Fall 1983) There are no credit charges or cash discounts.

**DAY SCHOOL** Registration fee (non-refundable after the fourteenth day following payment, payable only by new students and only once) ..... \$20  
Quarterly tuition, due three weeks before quarter classes begin..... \$1010  
Total present cost of 21-month program\* ..... \$7090

**EVENING SCHOOL** Registration fee (non-refundable after the fourteenth day following payment, payable only by new students and only once) ..... \$20  
Semi-term payment due three weeks before term classes begin and three weeks prior to mid-term ..... \$505  
Total present cost of 43-month program\* ..... \$7090

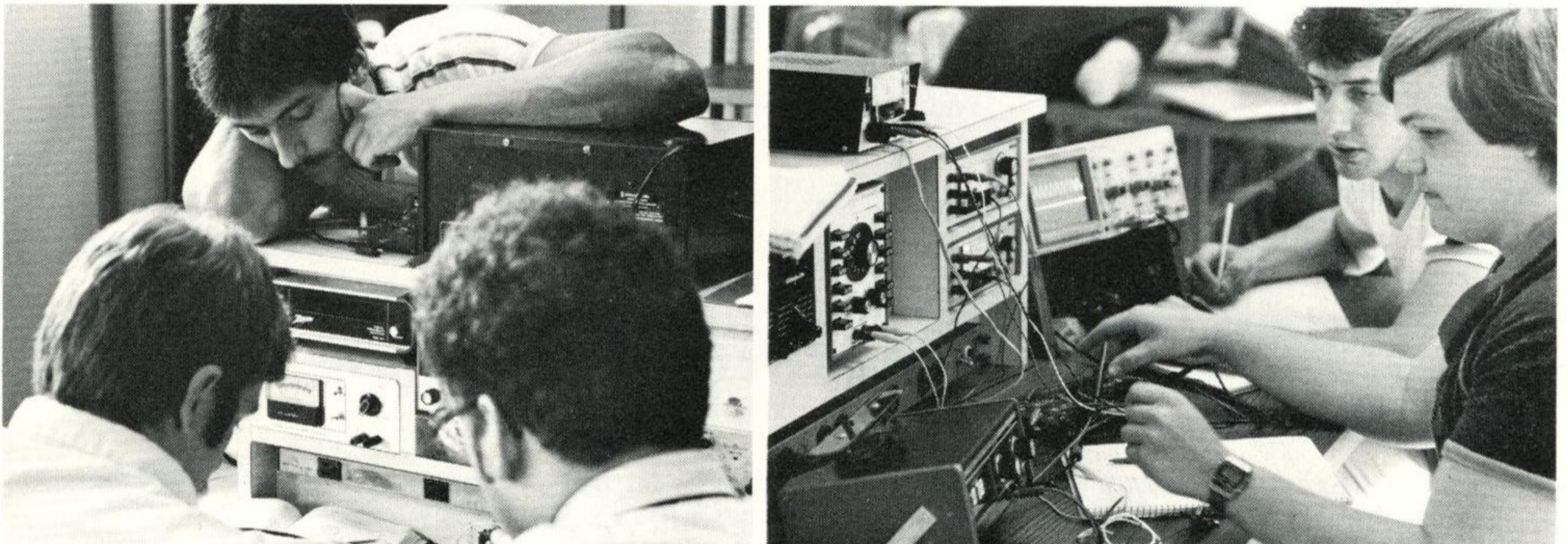
*\*This is subject to change for all enrolled when the quarter/term tuition is increased. A tuition increase will be announced at least six months prior to the effective date.*

**THE TOTAL COST OF BOOKS AND SUPPLIES,** purchased as needed in the program, approximates \$450. Since the costs are subject to suppliers' price changes, current prices are posted on the school bulletin board. No refunds are made on these purchases.

**A STUDENT WHO WITHDRAWS** or is dismissed from training will be refunded the difference between the quarter tuition paid (semi-term for evening school) and the actual tuition accrued by the school. The accrued tuition will be calculated by multiplying the hourly rate by the number of hours from the first hour of the quarter or term to the last hour attended.

Any other advanced payments will, of course, also be refunded.

A student who withdraws or is discontinued because of failing grades after or while attending the first day of a new quarter or term will be refunded all of that quarter's or



Finding and correcting problems in electronic equipment is done best when the technician understands what he is looking for and why. This is the way he is taught at Penn Tech.

semi-term's tuition paid, and any other advanced payments made, even though he or she may have attended the first day of the new quarter or term to receive the grades and counseling.

**THE PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY PROVIDES GRANTS-IN-AID** to students, based on financial need.

**THE PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY ADMINISTERS GUARANTEED LOANS** for which the student pays no interest until after withdrawal or graduation. Repayment begins up to six months after withdrawal or graduation.

**PENN TECH PARTICIPATES IN THE FEDERAL STUDENT-AID GRANT PROGRAMS** which provide grants-in-aid to students, based on financial need.

Penn Technical Institute offers a full-tuition scholarship through the Pittsburgh Buhl Science Center to a winner (high school senior) in the School Science Fair.

Frank J. Andrews Memorial Scholarship—a one-half tuition scholarship to a high school senior based on interest in amateur radio, need and grades (deadline for application is April 1.)

VICA Scholarship—a full-tuition scholarship awarded to the first-place Pennsylvania state-level winner in Industrial Electronics.

**HELP IS GIVEN FOR PART-TIME EMPLOYMENT** as available. There is no guarantee or promise of the availability of positions.

**TRANSCRIPTS OF GRADES ARE ISSUED AT THE COMPLETION OF EACH QUARTER OR TERM** of the program. In addition, each instructor reports grades informally to the student at times during the quarter or term. Each graduate is issued a transcript of his or her scholastic record.

Failing a quarter (grades averaging below 60%, or F's in theory and lab) will result in dismissal. Grades less than C's in theory, math or lab, or an overall average below 70%, will cause the student to enter the next quarter on probation. Failure to achieve C's or better in these subjects in the next quarter, and a 70% average, will result in dismissal. (A failing grade in theory, math or lab in the first or second quarter will result in the student being asked to leave the school and consider another field.)

Excessive absences in lab periods will result in a lowering of the lab grade, possibly to failure.

Readmission may be approved when the student has overcome the deficiencies and any evident causes thereof. Repeat of a quarter or term is not generally permitted, but if an exception is made it will be made only once, at the student's expense. (Financial aid will not be available.) All grades in the repeated quarter must be C or better.

**GRADING SYSTEM:**

A = 90-100%  
B = 80-89%

C = 70-79%  
D = 60-69%

F = Below 60% (failure)

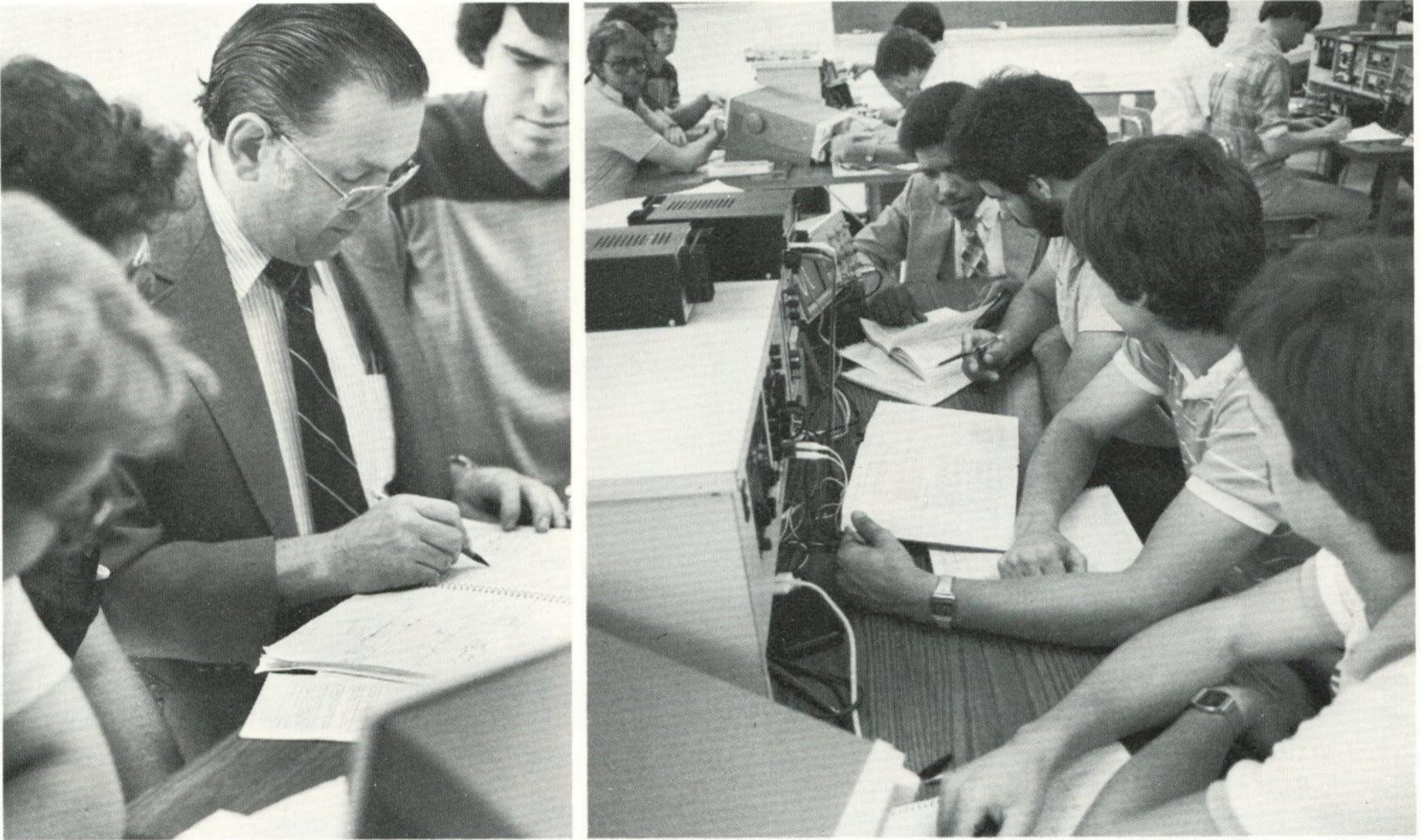
**CLASS HOURS:**

Day School: 8 A.M. to 2:15 P.M. Monday through Thursday. (If a school holiday falls on one of these days, classes will be held on Friday that week.)

Evening School: 6:30 to 10:30 P.M., Monday, Wednesday, and Thursday.

**CLASS SIZE:**

Classes may have as many as 36 students. When a class is larger than 25, an assistant instructor is assigned to the instructor in the laboratory period.



**SUCCESSFUL COMPLETION OF THE 105 QUARTER HOUR** (2016 Clock Hour) program in Electronics Technology leads to the award of the Associate in Specialized Technology degree. To be eligible for the degree the student must:

- a. Complete course requirements with a minimum average grade of "C" (70%) and no failed quarter or term;
- b. Have been enrolled in at least the last two quarters or terms of the program;
- c. Have an attendance record of 85% or better for the required attendance period;
- d. Satisfy all financial obligations to the school.

**STUDENTS WHO NEED HELP WITH THEIR STUDIES** may attend scheduled and limited after-class tutoring at no extra charge. Students may also use laboratory equipment on the premises on normal class days, when the labs are not in use.

**STUDENTS ARE BEING PREPARED FOR A WORK ENVIRONMENT** and thus they are expected to dress and conduct themselves in a responsible manner conforming with generally accepted standards of employment and education. They are also expected to abide by the school regulations in the Student Information Bulletin.

**LIMITED LIVING ACCOMMODATIONS ARE AVAILABLE** in private homes and some college dormitories. The school makes information available regarding these accommodations for students; however, it cannot assume any responsibility for the accommodations or for the safety or health of those residing in these or any facility.

**RADIO CLUB** amateur radio station W30ZE is available for use after class hours by those students who hold the proper license.

**A STUDENT INFORMATION BULLETIN CONTAINING THE RULES AND REGULATIONS IS ISSUED TO EACH STUDENT,** in addition to the following:

**1. Attendance**

The minimum required attendance is 85% of the program. If a student's cumulative attendance falls below 85% of the enrolled time at any time in the program, he or she must attend such that the 85% is achieved by the end of the next quarter or term. (If valid

reason makes this impossible, the recovery may be extended another term.) Failure to do so will result in a leave-of-absence. A student missing more than 25% of a quarter or term will not receive credit for that quarter or term. Entry into the final quarter or term with an absence percentage exceeding 15% will not be permitted.

A student will be dropped from training after four consecutive days of absence unless the school has been notified of the cause and that the student will be returning.

All the above does not preclude an exception for a valid cause, provided grades and previous attendance so warrant. In no case can a student graduate if absences exceed 15%.

Readmission after any of the above causes will be considered if the student overcomes any deficiencies and the causes of excessive absences no longer exist. (Any make-up time is at his or her own expense, at the current hourly rate and no financial aid.)

## **2. Leave-of-absence**

Leaves-of-absence may be granted to students who wish to temporarily interrupt their training. The request must be made in advance on a "Change of Status" form available in the school office.

## **3. Veterans (or war-orphans)**

The Veterans Administration will be notified by the school of the veteran's enrollment and any subsequent changes in the trainee's status.

The veteran should consult the Admissions Director on the forms and procedures necessary for receiving his or her benefits.

Make-up work is not permitted for the purpose of receiving Veterans Administration training allowance.

# **PLACEMENT**

## **PENN TECHNICAL INSTITUTE, AT NO ADDITIONAL CHARGE, ASSISTS STUDENTS IN SEEKING EMPLOYMENT AFTER GRADUATION.**

The assistance takes the form of encouraging and permitting representatives from local and out-of-city concerns to visit the school and interview students about to graduate, maintaining contacts with local and out-of-city concerns to determine employment openings and set up interviews, making contact with companies that have not previously hired to initiate new employment opportunities, keeping in touch with graduates seeking employment, checking with interviewers who visit the school or those contacting the school as to their satisfaction with the graduates, and maintaining records of placements. (There is no guarantee or promise of the availability of employment.)

## **PENN TECHNICAL INSTITUTE GRADUATES WORK FOR MANY TYPES OF EMPLOYERS.**

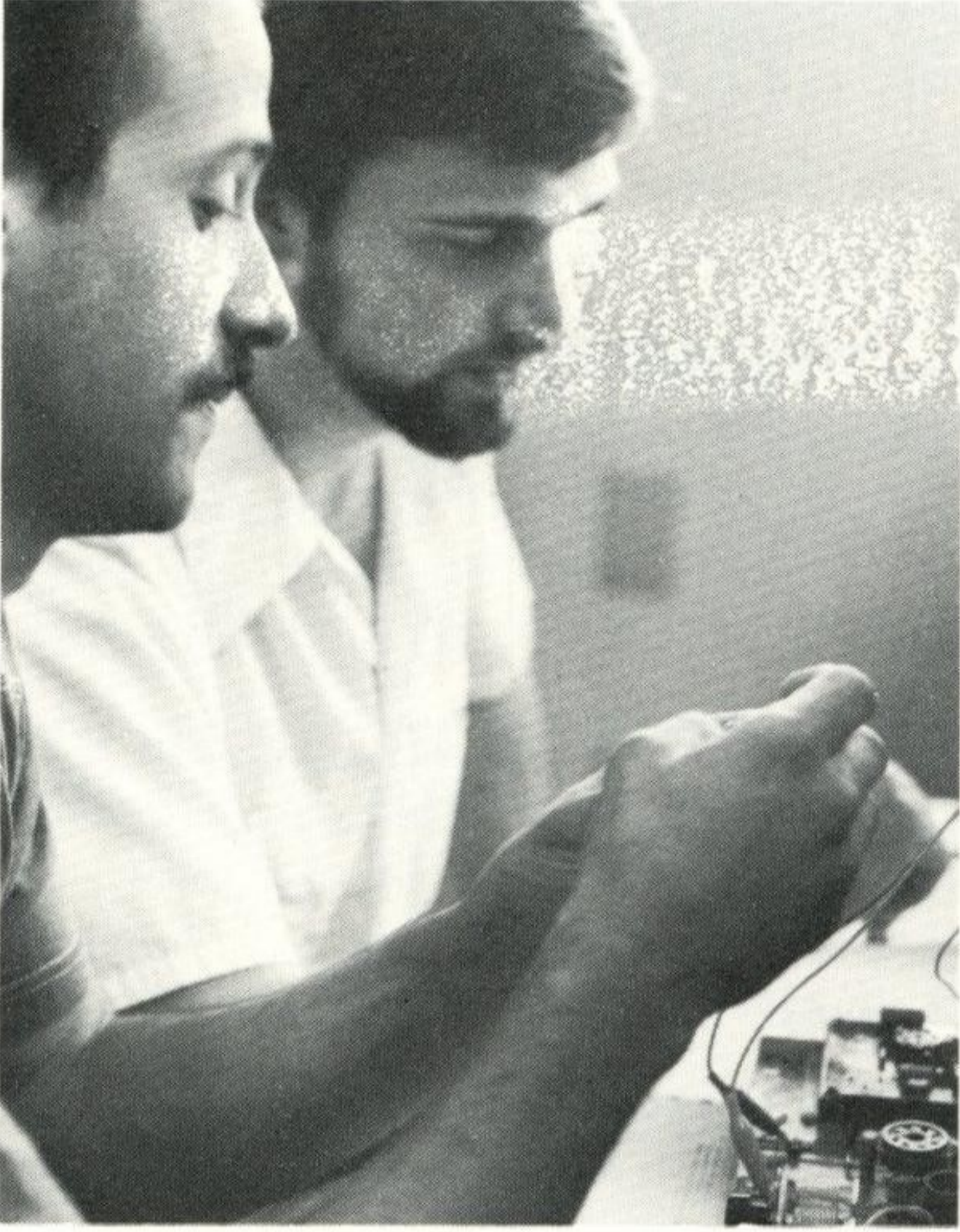
More than 8,000 electronic technicians have graduated from Penn Tech. During the past few years, graduates have been hired by the following companies (partial list). Listing of an employer does not imply endorsement of Penn Technical Institute by these organizations.

A.B. Dick Company  
The Appliance Store  
Arco Pipeline Corp.  
Babcock & Wilcox  
Bell of Pennsylvania  
Burroughs Corp.  
Computerland  
Cook Pacemaker  
Conrail  
Digital Equipment Corp.  
Eastman Kodak

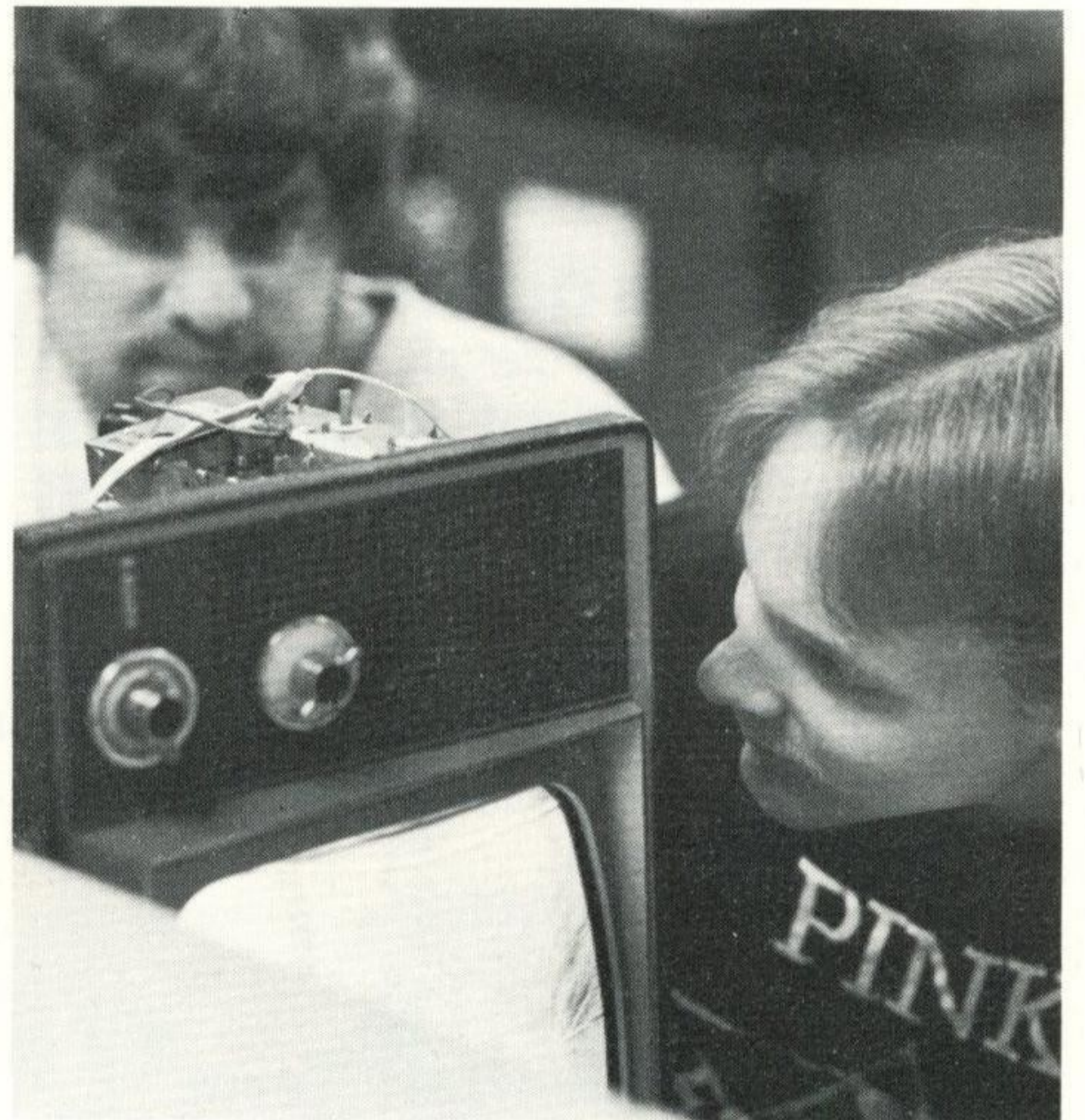
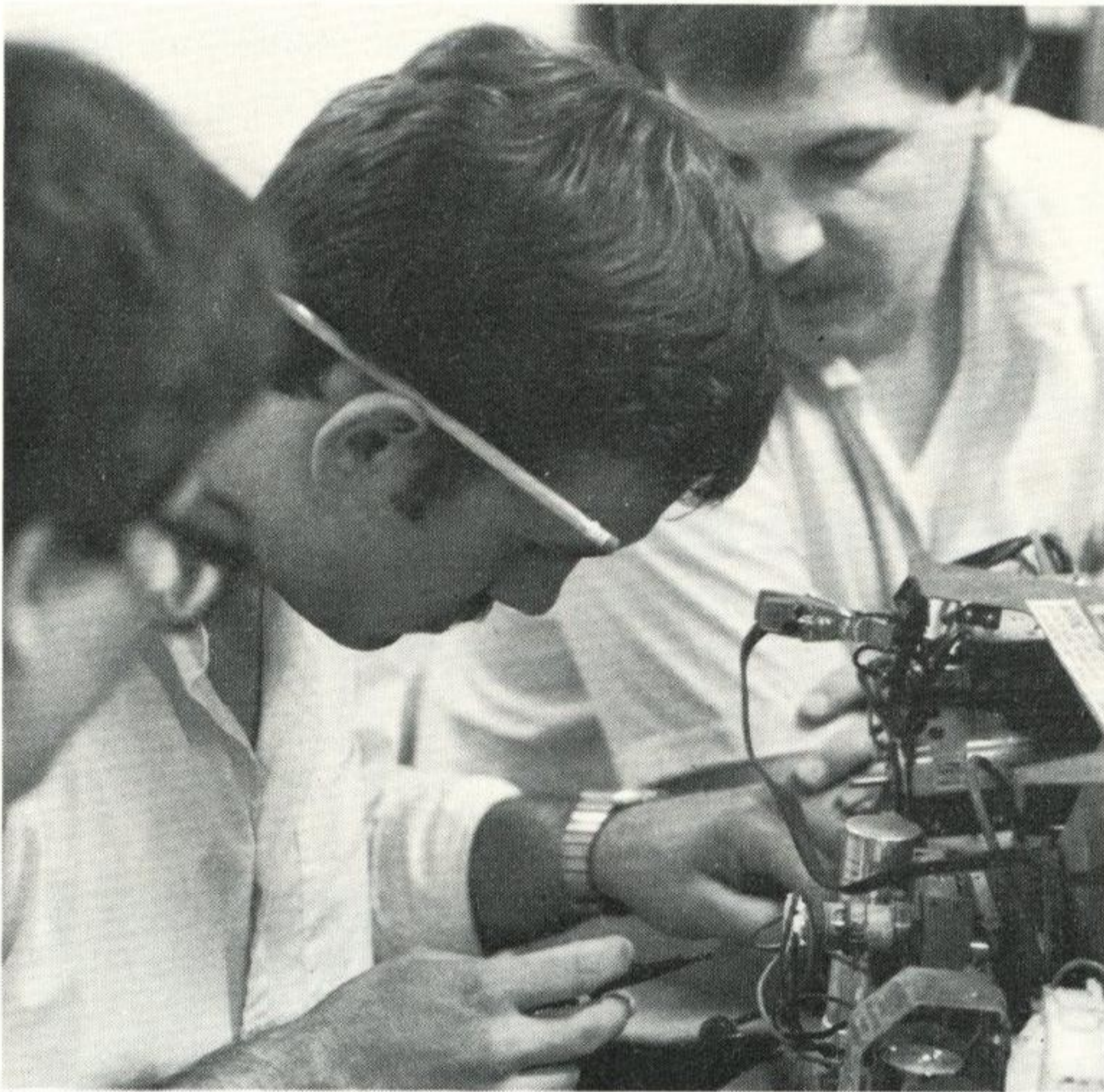
Ford Industries  
General Electric Co.  
General Electrical Medical Systems  
Honeywell  
Hughes Aircraft  
IBM Corp.  
KDKA-TV  
Laser Drive Inc.  
Magnavox Corp.  
Medrad Corp.  
Mellon National Bank

National Security Agency  
NCR  
PPG Industries  
Rockwell International  
Texas Instruments  
3M Company  
Three Rivers Computers  
Union Switch & Signal  
Westinghouse Electric  
Xerox  
Xerox Medical Systems





Students work on assignments in very small groups to enhance individual learning for each.



Students working with industrial or commercial equipment (above) or robotics (below) learn by doing.



# THE PROGRAM TITLE: ELECTRONICS TECHNOLOGY

**PROGRAM OUTLINE**—Associate in Specialized Technology Degree (Course Descriptions on following pages)

		Clock Hours	Quarter Hours*
<b>First Quarter/Term</b>		<b>288</b>	<b>15</b>
T1	Theory—Basic Electricity	107	7
M1	Mathematics—Basic Algebra	51	4
L1	Laboratory	94	3
TP1	Technical Problems	36	1
<b>Second Quarter/Term</b>		<b>288</b>	<b>14½</b>
T2	Theory—Basic Electronics	113	7
M2	Mathematics—Basic & Boolean Algebra	51	4
L2	Laboratory	94	3
D1	Drawing	30	½
<b>Third Quarter/Term</b>		<b>288</b>	<b>15</b>
T3	Theory—Radio/Stereo Systems	103	7
M3	Mathematics—Trigonometry, Vector Algebra & Using BASIC on Computers	51	4
L3	Laboratory	94	3
P1	Physics	40	1
<b>Fourth Quarter/Term</b>		<b>288</b>	<b>15</b>
T4	Theory—Television Systems	103	7
M4	Mathematics—Logarithms & Applied Algebra	51	4
L4	Laboratory	94	3
P2	Physics	40	1
<b>Fifth Quarter/Term</b>		<b>288</b>	<b>15½</b>
T5	Theory—Communications Systems	121	7
M5	Mathematics—Advanced Digital Logic	61	5
L5	Laboratory	64	2
W1	Technical Writing	12	1
S1	Shop	30	½
<b>Sixth Quarter/Term</b>		<b>288</b>	<b>15</b>
T6	Theory—Industrial Electronics	133	7
M6	Mathematics—Applications of BASIC	61	5
L6	Laboratory	94	3
<b>Seventh Quarter/Term</b>		<b>288</b>	<b>15</b>
T7	Theory—Computers	133	7
M7	Mathematics—Survey of Analytic Geometry & Calculus	61	5
L7	Laboratory	94	3

**Program Length: 2016 Clock Hours 105 Quarter Hours\***  
**Day ... 21 months Evening ... 43 months**

\*Quarter hour evaluations are not meant to imply transferability into college programs. The evaluations were made on the basis of at least one clock hour of class per week for 12 weeks in theory, math, etc., at least two clock hours of laboratory or technical problems per week for 12 weeks, and at least three clock hours of shop practices or drawing per week for 12 weeks.

# COURSE DESCRIPTIONS

Each quarter has as its prerequisites all previous quarters unless credit has been granted for previous training.

## **T1 BASIC ELECTRICITY—**

Introduction to electricity, magnetism, and basic electrical instruments; study of D.C. and A.C. fundamentals and the application of electricity to basic devices and machinery.

**T2 BASIC ELECTRONICS—**Study of basic electronic circuits; power supplies, amplifiers, oscillators, modulators, demodulators, logic circuits; introduction to A.M. and F.M. receiver circuits.

**T3 RADIO/STEREO SYSTEMS—**Familiarization with A.M., F.M., and F.M.-stereo receivers, audio amplifiers, op-amps, tape players and recorders; circuitry and systems, operations, adjustments and troubleshooting.

**T4 TELEVISION SYSTEMS—**Study of black and white and color television, industrial and cable television, circuitry and systems, operations, adjustments and troubleshooting.

**T5 COMMUNICATIONS SYSTEMS**  
—Study of receiver and transmitter applications to broadcast and commercial radio; radio applications of telephone, telegraph, teletype, facsimile, digital and other infor-

mation systems; microwave components and circuits and application to radar, communications, navigation and other commercial services.

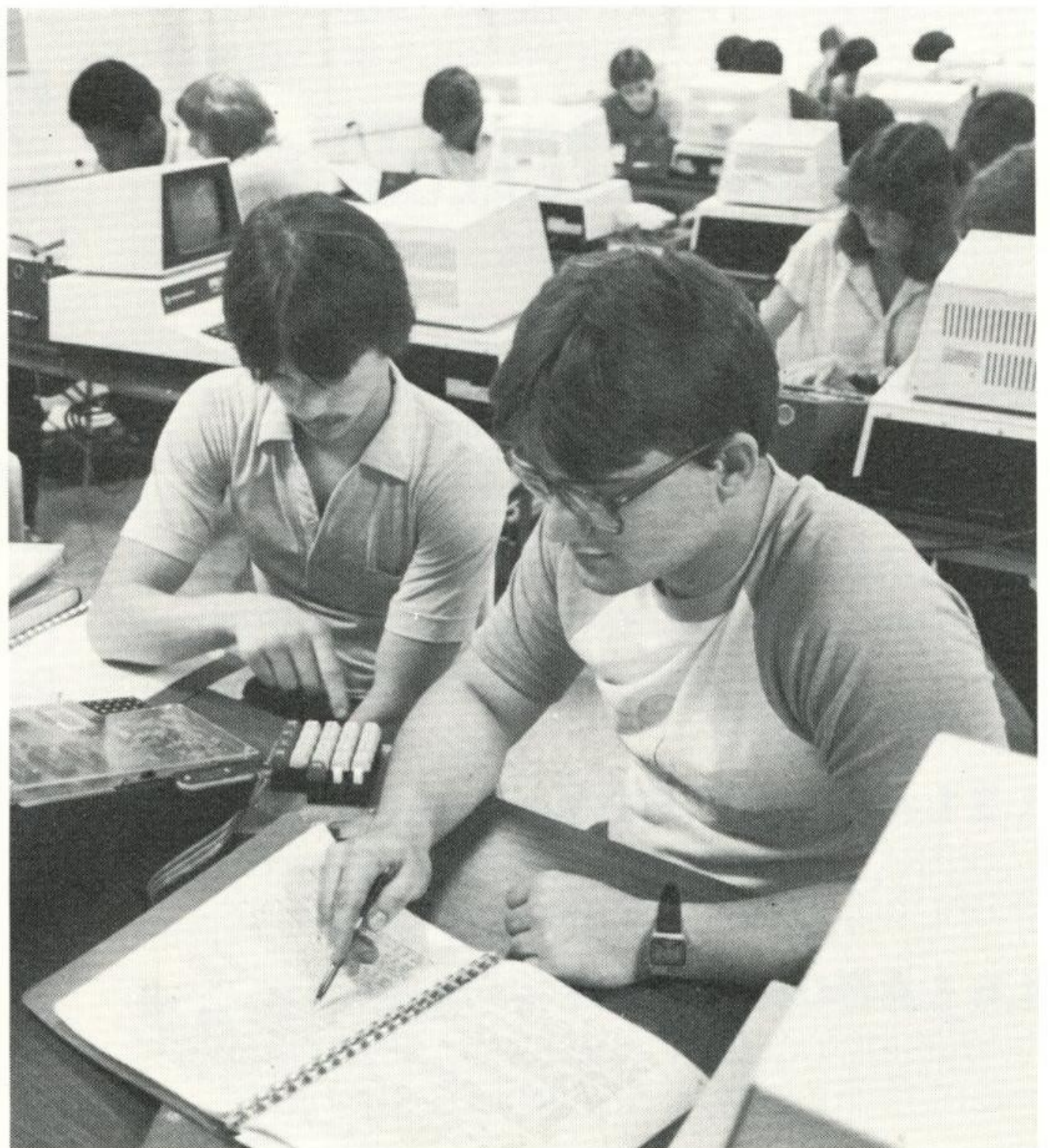
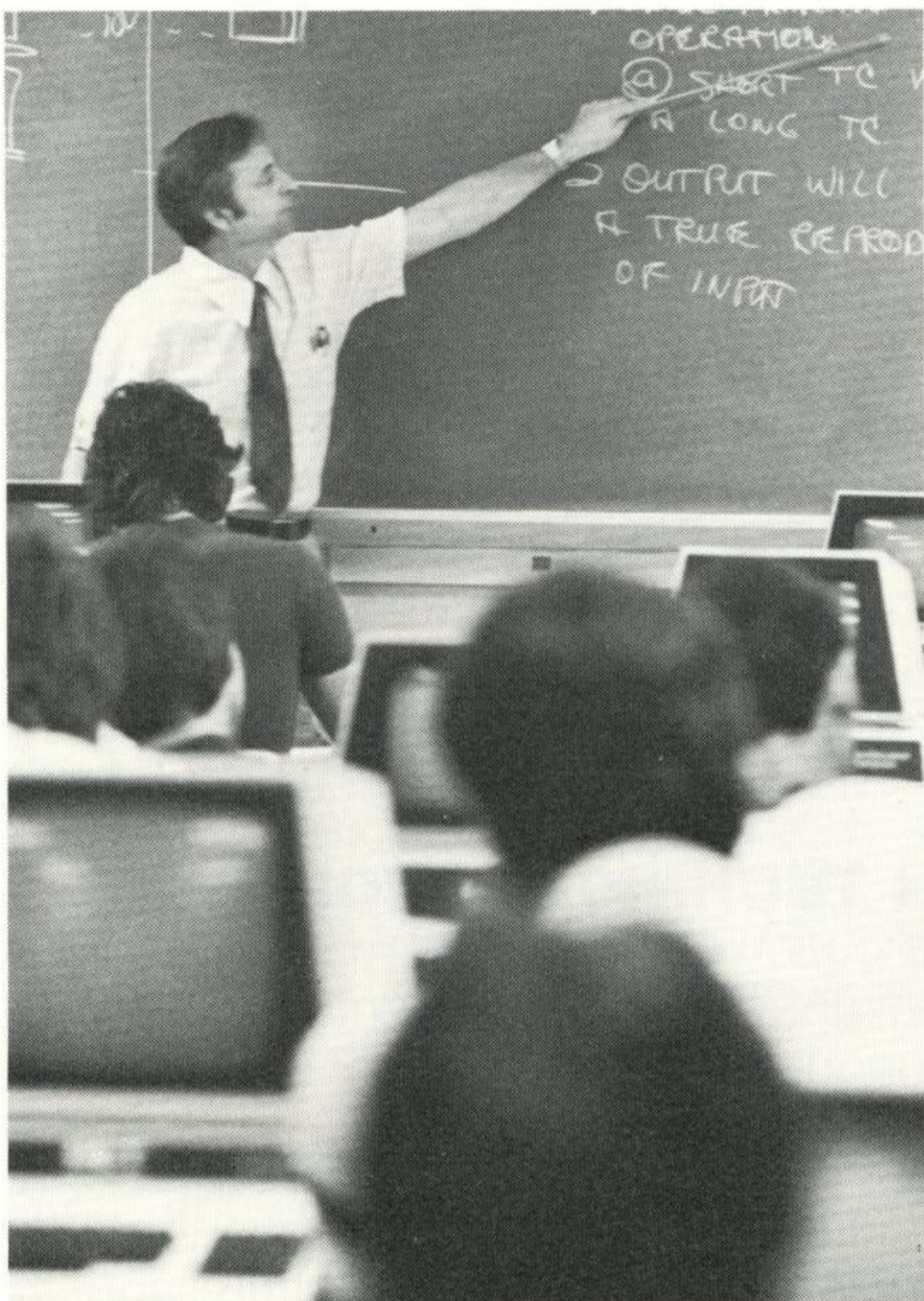
**T6 INDUSTRIAL ELECTRONICS**  
—Advanced study of solid state and tube devices and circuits; controls, analog and digital instrumentation and measurements; applications to industrial electronics and robotics.

**T7 COMPUTERS—**Study of computers, microprocessors as used in microcomputers, computer functions, elementary programming in machine and assembler language, digital circuitry, peripherals and applications.

**M1 BASIC ALGEBRA—**Basic algebra and application to electrical problems.

**M2 BASIC ALGEBRA AND BOOLEAN ALGEBRA—**Polynomials, applied algebra, and basic Boolean algebra.

**M3 TRIGONOMETRY, VECTOR ALGEBRA AND COMPUTER BASIC—**Study of trigonometry and



Classroom and lab work are tied together throughout.



Instructors grow close to students. Classes are small, and relationships are personal.

vector algebra and application to electronic circuits, and BASIC computer language applied to computers.

**M4 LOGARITHMS AND APPLIED ALGEBRA**—Study of logarithms and applications, and study of basic Boolean algebra and flow-charting.

**M5 DIGITAL LOGIC**—Advanced logic circuits, and applications to a simple computer.

**M6 APPLICATIONS OF BASIC**—BASIC applied to mathematics and graphics.

**M7 SURVEY OF ANALYTIC GEOMETRY AND CALCULUS**—Basic overview of analytic geometry and calculus.

**L1 LABORATORY**—Practical study of electrical components, basic circuits, measurements, and troubleshooting.

**L2 LABORATORY**—Practical study of transistor, tube, op-amp, and integrated circuit applications, measurements, and troubleshooting.

**L3 LABORATORY**—Practical study of radio receivers and audio systems, measurement, adjustment, and troubleshooting.

**L4 LABORATORY**—Practical study of television circuitry and systems, measurement, adjustment, and troubleshooting.

**L5 LABORATORY**—Practical study of

R.F. communications, circuits and equipment, and troubleshooting.

**L6 LABORATORY**—Practical study of components and circuits for industrial applications including robotic arms.

**L7 LABORATORY**—Practical study and applications of pulse and digital circuits, computer circuits, and microprocessors.

**P1 PHYSICS I**—Study of the basic principles and laws of physics as applied to mechanics, hydraulics, and pneumatics.

**P2 PHYSICS II**—Study of the basic principles and laws of physics as applied to heat, sound and optics.

**D1 DRAWING**—Basic principles of mechanical drawing with applications to electricity and electronics.

**S1 SHOP PRACTICES**—Basic principles of sheet metal layout and bending, punching, drilling, and use of basic machine-shop tools and machinery. Printed-circuit board techniques.

**TP1 TECHNICAL PROBLEMS**—Application of theory and mathematics to basic analysis of fundamental electrical components and circuits.

**W1 TECHNICAL WRITING**—Study of written and oral communications including technical reports, letters, and resume's.

# THE ADMINISTRATION AND FACULTY

LOUIS A. DIMASI, DIRECTOR; M. Ed. in Vocational Education, B.S. in Electrical Engineering, University of Pittsburgh; formerly Senior Radio Instructor, Signal Corps Officer Candidate School. (\*\*1947)

EUGENE L. SULKOWSKI, ASSISTANT DIRECTOR; M. Ed. in Vocational Education, B.S. in Physics, University of Pittsburgh; formerly Seismologist, University of Pittsburgh. (\*\*1950)

GEORGE E. BAUER, DIRECTOR OF STUDENT AID\*; B.S. in Electrical Engineering, American Television Institute; University of Pittsburgh; formerly Radio Instructor, U.S. Air Force. (\*\*1955)

JOHN D. GRILL, ADMISSIONS DIRECTOR\*; B.S. in Psychology, University of Pittsburgh; formerly Air Products, Inc. (\*\*1966)

DINO J. CICCONI, HIGH SCHOOL REPRESENTATIVE; B.A. in Psychology, University of Pittsburgh; formerly Employment Counselor, International Business Associates. (\*\*1980)

ANGELO A. TARDIO, HIGH SCHOOL REPRESENTATIVE; B.A. in Secondary Education, West Liberty State College; formerly teacher, East Allegheny Schools. (\*\*1979)

PERINO F. MARRAN, JR., CHIEF INSTRUCTOR\*; University of Pittsburgh; formerly Master Instructor, U.S. Air Force. (\*\*1965)

PATRICK M. BAKER, CHIEF TECHNICIAN/ INSTRUCTOR\*; A.S.T., Penn Technical Institute; formerly Engineman, U.S. Navy. (\*\*1973)

DEWEY T. CHAUVIN, INSTRUCTOR\*; Penn Technical Institute; Carnegie-Mellon University; formerly Electronics Technician, Television Station WKJF-TV. (\*\*1954)

JOSEPH R. DIMASI, TECHNICIAN/ INSTRUCTOR; A.S.T., Penn Technical Institute. (\*\*1980)

DALE J. DONOVAN, INSTRUCTOR; A.S.T. Penn Technical Institute; LaSalle College; formerly Computer Technician, Display Data Corporation. (\*\*1983)

HAMILTON GAMBARO, INSTRUCTOR; Gateway Technical Institute; U.S. Marine Corps Schools; formerly Supervisor/ Electronics Technician, U.S. Marine Corps. (\*\*1977)

RICHARD R. GIDEON, INSTRUCTOR; U.S. Air Force Technical School; formerly Broadcast Consultant, Richard R. Gideon & Associates. (\*\*1977)

ANTHONY GRAVANTE, INSTRUCTOR; Air Force Technical School, Allegheny Community College, formerly Field Service Engineer, Sentrol Systems. (\*\*1983)

PAUL R. HENRY, INSTRUCTOR; U.S. Army Signal School; University of Pittsburgh; Indiana Vocational-Technical College; formerly Electronics Technician, U.S. Army. (\*\*1969)

MARK ISKOVITZ, ASSISTANT INSTRUCTOR; Connelley Skill Learning Center; B.A. in English, University of Pittsburgh. (\*\*1980)

JAMES J. JAKIM, ELECTRONICS TECHNICIAN; formerly Banner Specialty Corp. (\*\*1983)

GEORGE E. LANG, INSTRUCTOR; Penn Technical Institute; Allegheny County Community College; formerly Research Technician, Carnegie-Mellon University. (\*\*1968)

WILLIAM H. McLAUGHLIN, INSTRUCTOR; U.S. Navy Technical School; formerly Electronics Technician, U.S. Navy. (\*\*1979)

LOUIS S. OTRUBA, INSTRUCTOR; B.S. in Electrical Engineering Technology, Point Park College; A.S.T., Penn Technical Institute; formerly Electronics Technician, Centre Video. (\*\*1978)

EDWARD E. PARADY, SR., INSTRUCTOR; National Technical School; formerly Sonar Technician/Instructor, U.S. Navy. (\*\*1977)

ERIE E. PIERRE, INSTRUCTOR; A.S.T., Penn Technical Institute; formerly Engineering Technician, RCA. (\*\*1980)

KENNETH J. POLLOCK, INSTRUCTOR; A.S.T., Penn Technical Institute; formerly Service Manager, Crossroads Electric. (\*\*1977)

MICHAEL L. REICHEL, INSTRUCTOR;  
U.S. Air Force Technical School; formerly  
Electronics Technician, U.S. Air Force.  
(\*\*1980)

WALTER RUKAS, TECHNICIAN/  
INSTRUCTOR; Penn Technical Institute;  
formerly Maintenance Technician, U.S.  
Army. (\*\*1967)

JOHN J. SUPER, INSTRUCTOR; Penn  
Technical Institute; University of Illinois;  
formerly Field Engineer, Tektronix, Inc.  
(\*\*1965)

RICHARD J. WEINBERG, PROJECT  
TECHNICIAN/INSTRUCTOR; A.S.T.,  
Penn Technical Institute; formerly AFC  
Electronics (\*\*1979)

CHARLES B. YOUNG, INSTRUCTOR;  
U.S. Navy Technical School; formerly Chief  
Radioman, U.S. Navy. (\*\*1967)

### **FACULTY, PART-TIME\*\*\***

FRANCIS J. CERWIN, INSTRUCTOR;  
M.B.A. in Business Administration, Harvard  
University; B.S. in Electrical Engineering,  
Syracuse University; formerly Assistant  
Chief Industrial Engineer, U.S. Steel  
Corporation. (\*\*1974)

### **SECRETARIAL STAFF**

SHIRLEY A. ROPAR, Office Manager  
MARY ANNE DIMASI\*  
SUSAN M. DIMASI  
KELLY S. PRICE  
WILMA L. TAYLOR

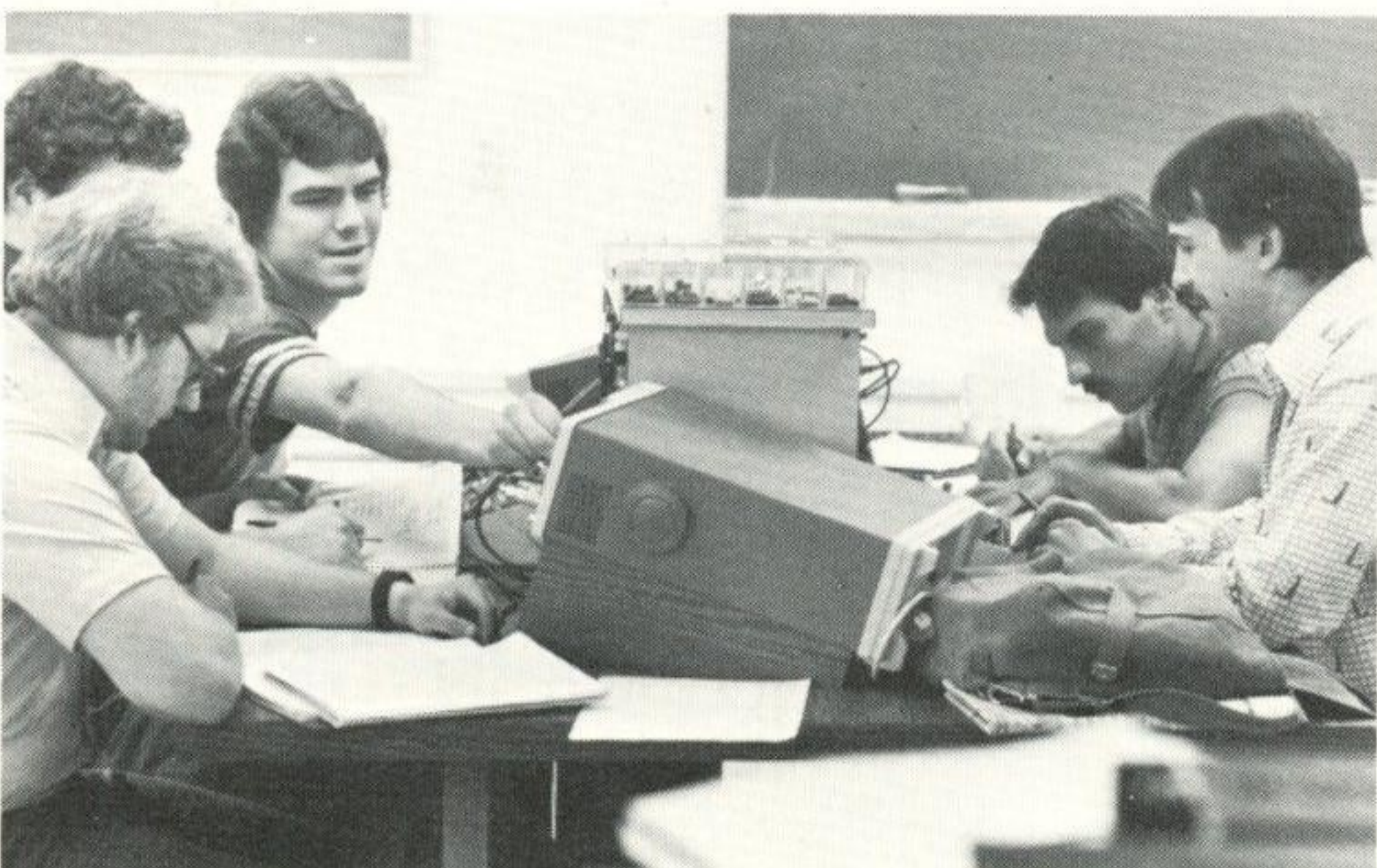
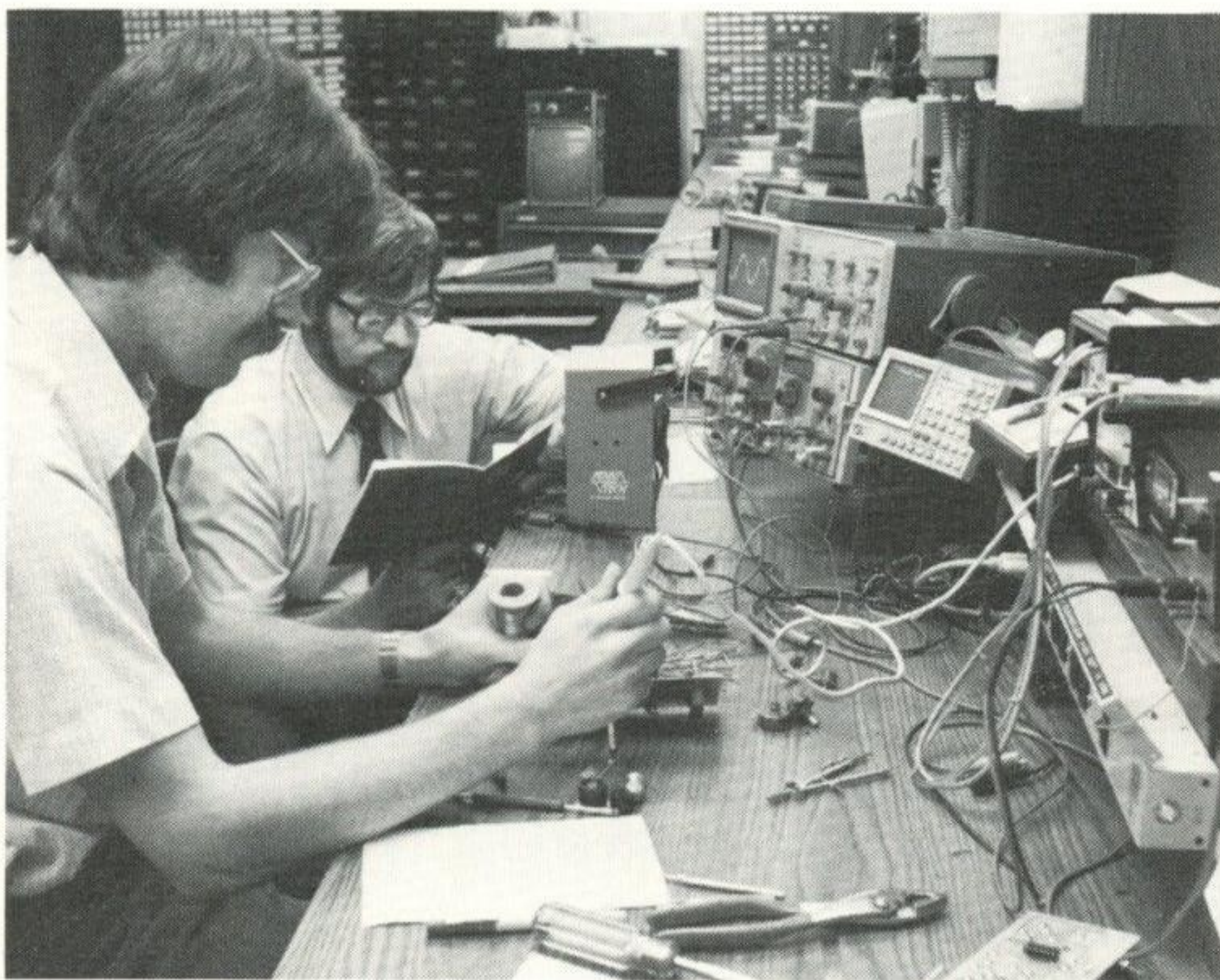
### **FACILITY STAFF**

MICHAEL BOOKER, Supervisor  
RONALD CORNELL, Assistant  
Supervisor/Technician

*\* Approved by Pa. State Board of Private Trade Schools as Acting Director in the absence of the Director or Assistant Director.*

*\*\* With Penn Tech since*

*\*\*\* Employed As Needed.*



At the end the student is prepared with a broad electronics base, equipped for entry into many fields.

# CALENDAR

## 1984

January 3	New Winter Day Classes Begin
February 20	Evening School Only—President's Day (no classes)
March 26	New Spring Day Classes Begin
April 11	New Spring Evening Classes Begin
May 28	Memorial Day (no classes)
June 18	New Summer Day Classes Begin
July 4	Independence Day (no classes)
July 16-27	School Vacation (no classes)
September 3	Labor Day (no classes)
September 24	New Fall Day Classes Begin
October 8	New Fall Evening Classes Begin
November 12	Evening School Only—Veteran's Day (no classes)
November 21	Evening School Only (no classes)
November 22-26	Thanksgiving Vacation (no classes)
December 19- January 4	Christmas Vacation (no classes)

## 1985

January 7	New Winter Day Classes Begin
February 18	Evening School Only—President's Day (no classes)
April 1	New Spring Day Classes Begin
April 8	New Spring Evening Classes Begin
May 27	Memorial Day (no classes)
June 24	New Summer Day Classes Begin
July 4	Independence Day (no classes)
July 15-26	School Vacation (no classes)
September 2	Labor Day (no classes)
September 30	New Fall Day Classes Begin
October 7	New Fall Evening Classes Begin
November 11	Evening School Only—Veteran's Day (no classes)
November 27	Evening School Only (no classes)
November 28- December 2	Thanksgiving Vacation (no classes)
December 23- January 3	Christmas Vacation (no classes)

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**(Please Print)**

I am interested in learning more about Penn Tech:

- Please telephone me.
- Please confirm my request to visit the school on \_\_\_\_\_ at \_\_\_\_\_
- Please send me another catalog for a friend.

Name \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Year of high school graduation \_\_\_\_\_

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**(Please Print)**

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Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Year of high school graduation \_\_\_\_\_



# CALENDAR UNDERNEATH

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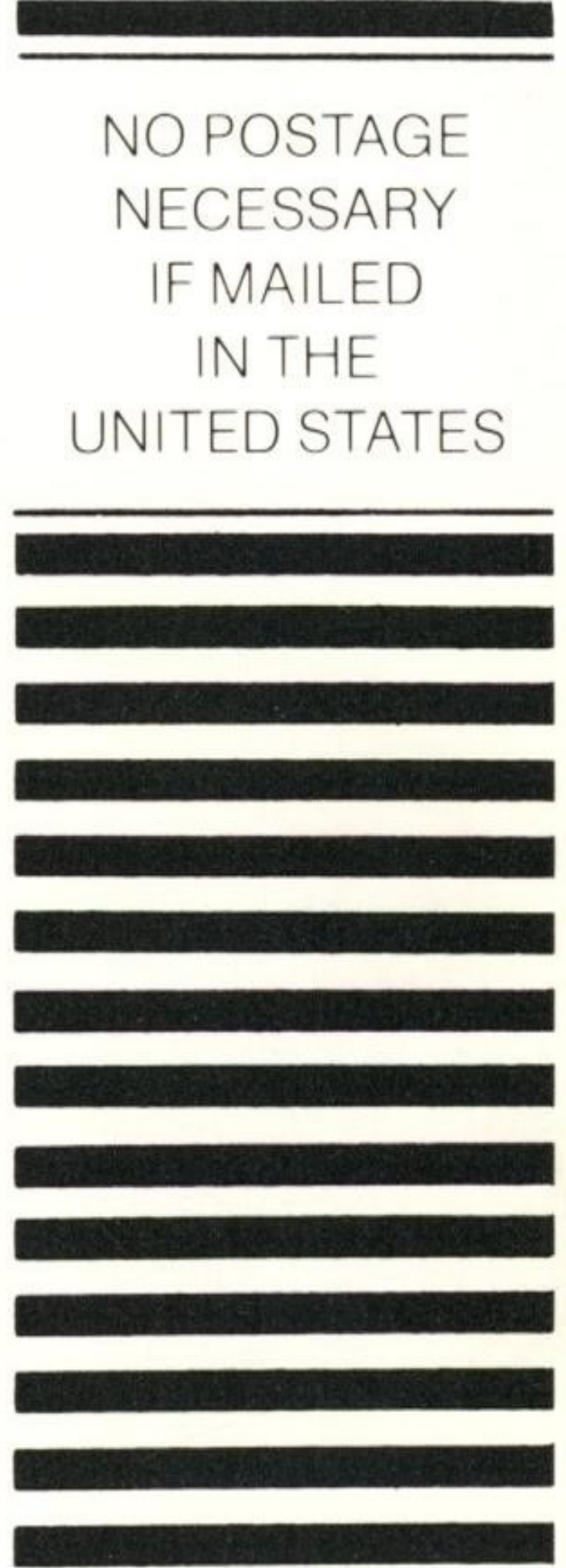
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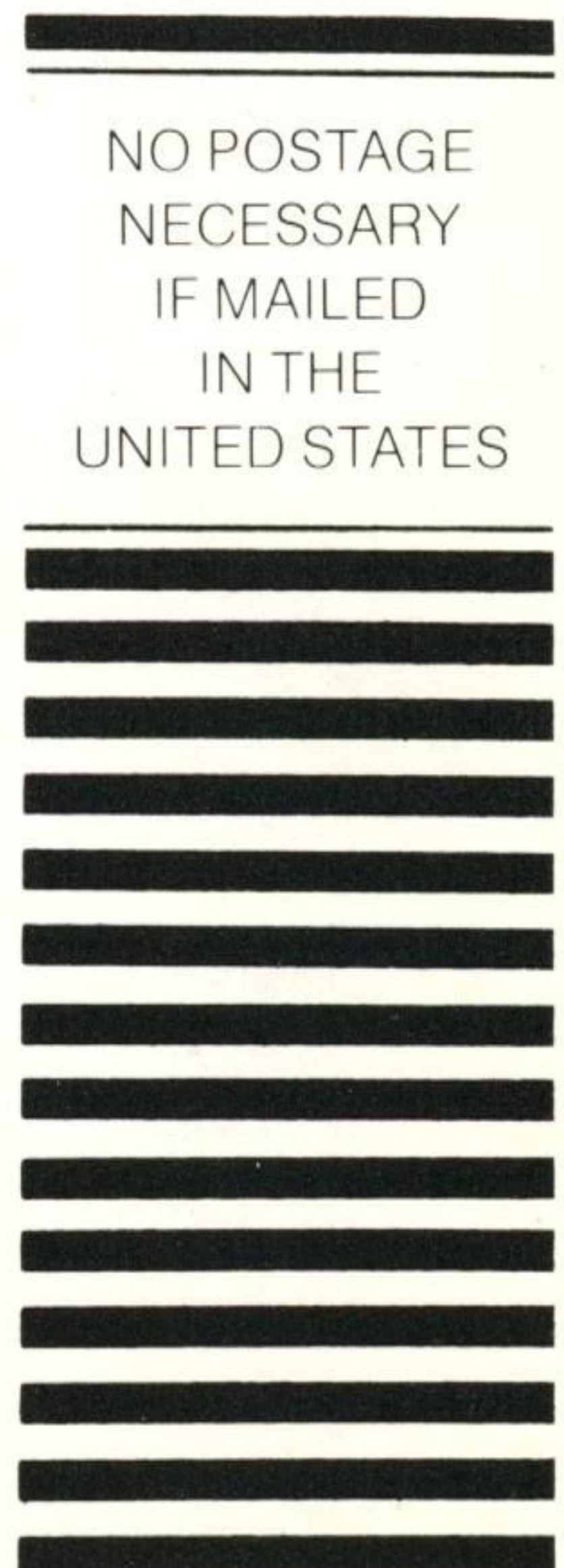
FIRST CLASS PERMIT NO. 7006 PITTSBURGH, PA

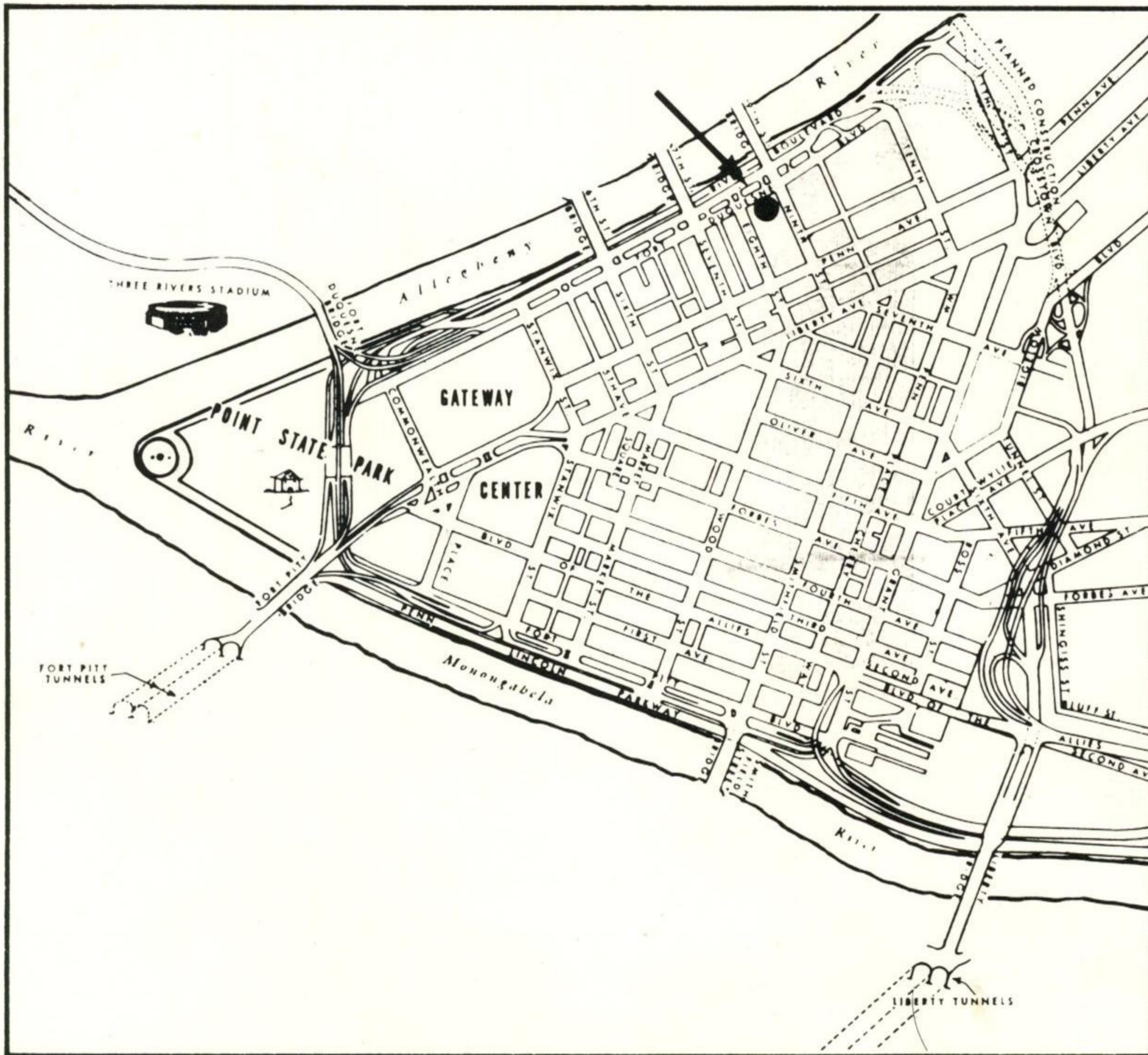
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**Penn Technical Institute  
110 Ninth Street at Fort Duquesne Blvd.  
Pittsburgh, Pennsylvania 15222**

Duff's Business Institute, also located at 110 Ninth Street, offers certificate, diploma and Associate in Specialized Business degree programs in secretarial sciences, accounting, fashion merchandising and court reporting.

**PENNA  
VTECH**