THE NAVAL RESERVE SEA AIR MARINER VOTECH PROGRAM:
QUALIFIED CIVILIAN SCHOOLS FOR RAMP

NICK VAN MATRE

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TRAINING LABORATORY
NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER
SAN DIEGO, CALIFORNIA 92152-8800

11 19-85 004
From: Director, Training Laboratory
To: Distribution
Subj: DISTRIBUTION OF TRAINING LABORATORY REPORT
Enc: (1) TL 85-4, The Naval Reserve Sea Air Mariner VOTECH Program: Qualified Civilian Schools for RAMP

1. Enclosure (1) presents the work conducted within advanced development subproject Z-1772-ET-016 (VOTECH Accession Program) under the mission sponsorship of the Chief of Naval Operations (OP-01). The objective of the project is to develop a program using civilian institutions to train Naval Reservists in Navy vocations that are experiencing shortages of Navy personnel and training facilities.

2. Presently the Naval Reserve Forces have the most critical shortfall in the Hospital Corpsman (HM) rating and in the construction ratings in the Construction Battalion (CBs).

3. The Commander Naval Reserve Force requested enclosure (1) to facilitate recruiting efforts under the Sea Air-Mariner (SAM) Reserve Program component that is dedicated to the enlistment of HMs—the Reserve Allied Medical Personnel Program (RAMP). The civilian schools listed in enclosure (1) are eligible to participate in the SAM program, because their training programs have been accredited by various American Medical Association organizations, such as the Committee on Allied Health Education and Accreditation and the National Society of Cardiopulmonary Technologists. Appreciation is extended to the American Medical Association for granting permission to duplicate pages from the Allied Health Education Directory, 13th edition. (Department of Allied Health Education and Accreditation of the American Medical Association, 1985).

4. Appreciation is also extended to CDR G. S. Windham, former Director of Education and Training Division, Naval Medical Command for his efforts in compiling the information in the appendices and for his efforts in establishing the RAMP program.

5. This report is intended for the recruiters from the Naval Reserve Forces Command to use in implementing the RAMP program beginning October 1985.

J. C. McLACHLAN

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THE NAVAL RESERVE SEA AIR MARINER VOTECH PROGRAM:
QUALIFIED CIVILIAN SCHOOLS FOR RAMP

Vick Van Matre

Reviewed and Approved by
Joseph C. McLachlan

Training Laboratory
Navy Personnel Research and Development Center
San Diego, California 92152-6800
The Naval Personnel Research and Development Center is conducting research to develop and evaluate a new Reserve accession program that would use civilian training institutions in lieu of regular Navy training schools. As part of this total effort, the recruiters in the Naval Reserve Force Command need a document that lists the schools eligible for this program.

The first part of this Reserve program is directed toward the recruitment of Reserve Hospital Corpsmen. This program is known as the Reserve Allied Medical Personnel (RAMP) program. This report contains the lists of all the civilian schools that have been certified by the relevant American Medical Association accrediting organization. Recruiters should use the contained lists in their efforts to recruit non-prior military individuals into the RAMP program.

Training evaluation, recruitment, reserves
SUMMARY

Purpose and Background

This report provides the Navy recruiting community with a listing of the accredited civilian schools that are eligible to participate in the Reserve Allied Medical Personnel (RAMP) component of the Navy's Sea Air Mariner (SAM) Reserve Program.

Using civilian vocational/technical (VOTECH) schools in lieu of Navy training schools is a way of meeting the increased training requirement resulting from expansion of the Naval Reserve Force and a diminishing pool of trained personnel in critical ratings.

Program Description

The SAM VOTECH program is a Naval Reserve program for non-prior military service personnel, ages 17-34. The Hospital Corpsman (HM) rating and the construction ratings in the Construction Battalion (CBs) have been targeted as having a critical shortage of trained reservists. The RAMP program for HMs is being implemented in fiscal year 1986 to alleviate the shortage. The CB VOTECH program is still under development because of the need for more extensive civilian school curriculum evaluation.

In the RAMP program, participants complete the regular 8-week Navy recruit training and then return to their home community for technical training in a qualified civilian school, monthly reserve drills, and 2 weeks of annual active duty. The Navy reimburses participants for tuition, books, and supplies. Bonuses up to $2,000 make the program even more attractive.

Selection of Qualified Civilian Schools

Schools that have been accredited by various American Medical Association organizations were selected as eligible for the RAMP program. Reservists who complete one of the qualified civilian schools listed in Appendixes A through C will receive a specific Navy Enlisted Classification (NEC) designation.

Qualification of civilian schools for the CB program requires individual school curriculum analysis by the Navy Personnel Research and Development Center and the Naval Education and Training Command organizations, because no similar national accrediting body exists for construction trade training. Lists of qualified schools for the CB ratings will be provided when the curriculum review is accomplished during fiscal year 1986.

Recommendation

NAVRESFOR recruiting personnel should use the lists of qualified schools contained herein in determining eligibility of civilian schools for the RAMP program.
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<td>L-1</td>
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INTRODUCTION

The purpose of this report is to provide to the Navy recruiting community a listing of the civilian schools that are eligible for participation in a component of the Navy's Sea Air Mariner (SAM) Reserve Program directed toward the Hospital Corpsman (HM) rating. Specifically, this report provides recruiters with a list of civilian schools supporting the Reserve Allied Medical Personnel (RAMP) component of the SAM program. The use of civilian schools to provide Navy technical training is an outgrowth of a planned expansion of the reserve forces and its resulting shortage of trained personnel.

Current expansion of the Naval Reserve forces will increase the number of reservists by approximately 30 percent during the next few years. The resulting increase in required technical training is taxing the Navy's available resources of instructors, equipment, and facilities. At the same time, demographic variables are significantly reducing the pool of military eligible individuals over the next decade. Both of these factors have prompted the Navy to explore alternative methods for recruiting reserve personnel for critical occupational areas and to identify alternative training resources for accomplishing required Navy technical training.

The Chief of Naval Operations (OP-01) sponsored a research project (Z-1772-ET-016) to develop alternative civilian training sources for Navy occupational ratings that are undergoing a critical training and personnel shortfall. The idea is to use civilian schools to provide the vocational/technical (VOTECH) training for critical Navy ratings that have insufficient Navy training resources. Presently, the Naval Reserve Forces have the most critical trained personnel shortfalls in the HM rating and the constructing ratings in the Construction Battalion (CBs). Programs that address these training shortfalls are currently being developed and implemented.

PROGRAM DESCRIPTION

The SAM program is a Naval Reserve program that seeks to enlist 17 to 34-year-old personnel without prior military service into the Navy. These personnel usually complete the regular Navy recruit training and various kinds of technical training, before returning to their home community to participate in monthly reserve drills and 2 weeks of active duty annually. However, this added annual requirement to train approximately 10,000 SAM Reservists exceeds the maximum capability of the Navy technical training schools.

The VOTECH component of the SAM program involves sending the personnel to the regular 8-week Navy recruit training, but to a civilian school, in their home community for completion of the Navy related VOTECH training. The Navy will provide reimbursement for tuition and cost of books and fees for VOTECH training completed after enlisting in the reserve SAM program. Additionally, reservists will receive up to $2,000 as a bonus for successful participation in the SAM program for the critical occupation areas. Implicit in this program is the idea that reservists who intend to use the same skill in their full-time occupation as in the reserves will be of greater benefit to the Navy than reservists who use the skill only on their drill weekends.
Hospital Corpsmen RAMP Program

The purpose of the RAMP program is primarily to get personnel who meet specific Navy Enlisted Classification (NEC) requirements for selected technical skills. The NECs that the Navy has identified as being in a critical shortage status are listed in Table I.

<table>
<thead>
<tr>
<th>NEC</th>
<th>Title</th>
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<tbody>
<tr>
<td>HM-8408</td>
<td>Cardiopulmonary Technician</td>
</tr>
<tr>
<td>HM-8445</td>
<td>Advanced Ocular Technician</td>
</tr>
<tr>
<td>HM-8452</td>
<td>Advanced X-Ray Technician</td>
</tr>
<tr>
<td>HM-8454</td>
<td>Electroencephalography Technician</td>
</tr>
<tr>
<td>HM-8463</td>
<td>Optician Technician</td>
</tr>
<tr>
<td>HM-8466</td>
<td>Physical Therapy Technician</td>
</tr>
<tr>
<td>HM-8477</td>
<td>Biomedical Equipment Technician (Basic)</td>
</tr>
<tr>
<td>HM-8478</td>
<td>Biomedical Equipment Technician (Advanced)</td>
</tr>
<tr>
<td>HM-8483</td>
<td>Operating Room Technician</td>
</tr>
<tr>
<td>HM-8591</td>
<td>Laboratory Technician (Basic)</td>
</tr>
<tr>
<td>HM-8596</td>
<td>Laboratory Technician (Advanced)</td>
</tr>
<tr>
<td>HM-8732</td>
<td>Dental Equipment Repair Technician</td>
</tr>
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</table>

The RAMP program can acquire highly skilled technicians and avoid the sizable cost of delivering the NEC related technical training in addition to the costs for HM "A" school. The RAMP program generally will produce HMs who work full time in the same medical technical area in which they work during their Reserve drill periods.

The Naval Medical Command, together with the Commander Naval Reserve Force (COMNAVRESFOR), are structuring a total reserve training pipeline to ensure that the reserve HMs will have the full complement of hospital corpsmen skills, as well as the NEC specific technician skills. The RAMP program is being implemented beginning in October 1985 to meet a sizable fiscal year 1986 HM requirement.

Construction Battalion VOTECH Program

The VOTECH program involving the seven construction ratings for the CBs is still under development. This program is similar to RAMP, but its goal is to obtain "A" school qualified CB personnel from civilian training schools instead of conventional Navy "A" schools. The construction ratings under consideration for the CB VOTECH program are: Equipment Operator, Builder, Construction Mechanic, Construction Electrician, Engineering Aid, Steelworker, and Utilitiesman.
As with the RAMP program, reimbursement will be provided for costs associated with acquiring the Navy related training—tuition, books, supplies. A special 4-week CB-oriented apprentice training program will be provided to all CB VOTECH reservists immediately following the initial recruit training. The combined recruit and apprentice training will satisfy the 12-week training requirement for mobilization and will provide needed orientation to the CB reservist without prior military service.

The primary difference in the two programs is in the method by which civilian schools are determined to be eligible for participation. This difference is described in the following report section.

**SELECTION OF QUALIFIED CIVILIAN SCHOOLS**

**RAMP Program**

Selection of qualified civilian schools for the RAMP program was simplified by the existence of several accrediting bodies recognized by the American Medical Association. The Naval Medical Command recognized the accreditation granted to these institutions by these bodies and decided that reservists graduating from the accredited institutions would be granted the Navy NEC equivalent. Table 2 lists for each NEC, the equivalent civilian title, and the criteria for Navy acceptance.

Personnel from the Naval Medical Command compiled the qualified schools listed in Appendixes A through L for the NECs listed in Table 2. A fact sheet at the front of each appendix provides salient information about the NEC and its technical area for the convenience of recruiters attempting to enlist individuals into these areas. The listing for each school generally includes: school name, address, director, tuition, class capacity, starting date, and the date of next scheduled (accreditation) review. Graduates, as well as students, in these listed civilian school programs are eligible for the S-NM RAMP program.

**Construction Battalion VOTECH Program**

Identifying qualified civilian schools for the CB VOTECH program is considerably more difficult than for the RAMP program because no national accrediting bodies exist for construction trade training. Each institution must be accredited by a nationally recognized body, such as the American Association of Community and Junior Colleges. Specific evaluation of the technical training will be based on research being conducted by the Navy Personnel Research and Development Center in coordination with the Naval Education and Training Command and its subordinate organizations. This research consists of analyzing the curriculum of each school to determine the similarity of the civilian and Navy training.

An initial survey of civilian schools revealed that many civilian schools are extremely interested in participating in the program and have construction training programs similar to the Navy's. Completion of the research is necessary for adequate determination of the similarity of the Navy and civilian school training. The evaluation of the civilian training will be accomplished through Curriculum Review Boards comprised of Navy training command personnel who will review school material and information collected by NPRDC via questionnaires and actual site visits.
<table>
<thead>
<tr>
<th>NEC Title</th>
<th>Civilian Equivalent</th>
<th>Acceptance Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>HM-3408 Cardiopulmonary Technician</td>
<td>Cardiopulmonary Technician</td>
<td>Graduates of programs accredited and/or certified by the National Association of Cardiopulmonary Technologists.</td>
</tr>
<tr>
<td>HM-3443 Advanced Ocular Technician</td>
<td>Ophthalmic Medical Assistant</td>
<td>Graduates of programs accredited by the Committee on Allied Health Education and Accreditation (CAHEA) and/or certified by the Joint Commission on Allied Health Personnel in Ophthalmology.</td>
</tr>
<tr>
<td>HM-3452 Advanced X-ray Technician</td>
<td>Radiographer</td>
<td>Graduates of programs accredited by CAHEA and/or certified by the American Registry of Radiologic Technologists.</td>
</tr>
<tr>
<td>HM-3464 Electroencephalography Technician</td>
<td>EEG Technologist</td>
<td>Graduates of programs accredited by CAHEA and/or certified by the American Board of Registration of EEG Technologists, Inc., and/or certified by the American Board of Certified Registered Technologists.</td>
</tr>
<tr>
<td>HM-3463 Optician Technician</td>
<td>Optician</td>
<td>Graduates of programs approved by the American Board of Opticianary National Contact Lens Examiners, or Optician Association of America. Certification by any of the above.</td>
</tr>
<tr>
<td>HM-3466 Physical Therapy Technician</td>
<td>Physical Therapy Assistant</td>
<td>Graduates of programs accredited by the American Physical Therapy Association and/or certification by the same body.</td>
</tr>
<tr>
<td>HM-3477 Biomedical Equipment Technician (Basic)</td>
<td>Biomedical Equipment Technician</td>
<td>Graduates of programs approved by and/or certified by the Biomedical Equipment Technician Association for the Advancement of Medical Instrumentation.</td>
</tr>
<tr>
<td>HM-3478 Biomedical Equipment Technician (Advanced)</td>
<td>Biomedical Equipment Technician</td>
<td>Same as 3477 plus experience factor.</td>
</tr>
<tr>
<td>HM-3493 Operating Room Technician</td>
<td>Surgical Technologist</td>
<td>Graduates of programs accredited by CAHEA and/or certified by the Association of Surgical Technologists, Inc.</td>
</tr>
<tr>
<td>HM-3501 Laboratory Technician (Basic)</td>
<td>Medical Laboratory Technician</td>
<td>Graduates of programs accredited by CAHEA and/or certified by the National Certification Agency for Medical Laboratory Personnel.</td>
</tr>
<tr>
<td>HM-3506 Laboratory Technician (Advanced)</td>
<td>Medical Laboratory Technology (Advanced Degree)</td>
<td>Graduates of programs accredited by CAHEA and/or certified by the National Certification Agency for Medical Laboratory Personnel.</td>
</tr>
<tr>
<td>HM-3732 Dental Equipment Repair Technician</td>
<td>Biomedical Equipment Technician</td>
<td>Graduates of programs approved by and/or certified by the Biomedical Equipment Technician Association for the Advancement of Medical Instrumentation.</td>
</tr>
</tbody>
</table>
Schools eligible for the CB VOTECH Program will be identified during fiscal year 1986. Lists of these schools will be distributed by means of updates of this or other documents.

RECOMMENDATION

COMNAVRESFOR recruiting personnel should use the lists of qualified schools contained herein in determining eligibility of civilian schools for the RAMP program.
APPENDIX A

HM-8403 CARDIOPULMONARY TECHNICIAN
### INDIVIDUAL NEC FACT SHEET

<table>
<thead>
<tr>
<th>NEC</th>
<th>NEC TITLE</th>
<th>CIVILIAN TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8408</td>
<td>Cardiopulmonary Technician</td>
<td>Cardiopulmonary Technician</td>
</tr>
</tbody>
</table>

**NEC Description:**

Assists in all phases of cardiac catheterization, angiography, arterial puncture studies, bronchography, and pulmonary function studies. Sets up and maintains sterile field packs and cares for all instruments, and operates a fluoroscope. Possesses knowledge of skin-testing methods using purified protein derivatives of tuberculin, histoplasmosis, and coccidioidin.

**Certifying Body:**

National Society of Cardiopulmonary Technologists  
Gaithersburg, MD  
Phone: (301) 258-9050

**Acceptance Criteria:**

Graduates of programs accredited and/or certified by the National Society of Cardiopulmonary Technologists.

**Military Conversion:**

Army: None  
Air Force: 91X 0, 9100

**Employment:**

Hospitals

**Schools:**

(See attached sheet)

A-2
SPOKANE COMMUNITY COLLEGE
No. 1810 Greene Street
Spokane, Washington 99207
CONTACT: Wes Todd/Dennis Carney
(509) 535-7000

STATE UNIVERSITY OF NEW YORK AT STONY BROOK
SAHP; HSC: 2L052
SUNY at Stony Brook
Stony Brook, New York 11794
CONTACT: Prof. William Treanor
(516) 444-3180

GROSSMONT COLLEGE
8800 Grossmont College Drive
El Cajon, California 92020
CONTACT: W. E. Dellegar, Science Dept.
(619) 455-1700

SANTA FE COMMUNITY COLLEGE
CARDIOPULMONARY TECHNOLOGY PROGRAM
P.O. Box 1530
Gainesville, Florida 32602
CONTACT: Rita Fullington
(904) 375-4200 Ext. 290

CARDIOPULMONARY TECHNICIANS SCHOOL
Naval School of Health Sciences
Bethesda, Maryland 20814
(301) 295-0125

CARDIOPULMONARY TECHNICIANS SCHOOL
Naval School of Health Sciences
San Diego, California 92134
CONTACT: Chief Reiv
(619) 233-2667

GWINNED-MERCY COLLEGE
Gwynedd Valley, Pennsylvania 19437
CONTACT: Andrea Reiley, R-CPT

COMMUNITY COLLEGE OF THE AIR FORCE/AHF
Maxwell Air Force Base, Alabama
INDIVIDUAL NEC FACT SHEET

NEC   NEC TITLE   CIVILIAN TITLE
8445 Advanced Ocular tech. Ophthalmic Medical Asst.

NEC Description:
Assists medical and optometry officers in the advanced treatment and care of patients with ocular disorders. Directs the work of the ocular technician in the clinic. Assists the ophthalmologist in the operating room. Possesses greater proficiency in performing the more definitive diagnostic tests.

Certifying Body:
Joint Commission on Allied Health Personnel in Ophthalmology
1812 N. St. Paul Road
St. Paul, MN 55109

Acceptance Criteria:
Graduates of programs accredited by CAHEA and/or certified by the Joint Commission on Allied Health Personnel in Ophthalmology.

Military Conversion:
Army: MOS 42E
Air Force: 912X

Employment:
By private ophthalmologists, medical institutions, clinics, physician groups

Schools:
(See attached sheet)
OPHTHALMIC MEDICAL ASSISTANT

Occupational Description: Ophthalmology medical assistants play a directly-supporting role to the physician. Ophthalmology medical assistants are skilled persons qualified by academic and clinical training to carry out diagnostic and therapeutic procedures under the direction and responsibility of the physician.

Job Description: Ophthalmic medical assistants assist ophthalmologists by performing delegable tasks, collecting data, and administering or supervising treatment ordered by ophthalmologists. Their duties may include: (a) taking a medical history, administering diagnostic tests, making anatomical and functional ocular measurements, testing ocular functions (including visual acuity, visual fields and sensorimotor functions), administering topical ophthalmic medications, instructing the patient (as in home care and in use of contact lenses); (b) care and maintenance of optical instruments; care, maintenance and sterilization of surgical instruments and maintenance of ophthalmological office equipment; (c) assisting in ophthalmic surgery in the office or hospital; (d) making optical measurements, administering orthoptic and pleoptic procedures; (e) carrying out ocular electroneuropsychological procedures; (f) assisting in the fitting of contact lenses; (g) fitting, making minor repairs on, and adjusting spectacles; (h) clinical photography; and (i) such other tasks as may be delegated consistent with sound medical practice.

Employment Characteristics: Ophthalmic medical assistants render supportive services to the ophthalmologist. They are employed primarily by ophthalmologists, but may be employed by medical institutions, clinics or physician groups and assigned to an ophthalmologist who is responsible for their direction. Ophthalmic medical assistants may be involved with patients of an ophthalmologist in any setting for which the ophthalmologist is responsible.

Educational Programs:

Length: Programs are generally 1-2 years in length.

Prerequisites: High school diploma or equivalent.

Curriculum: Instruction should follow a planned outline which includes courses in anatomy and physiology, medical terminology, medical laws and ethics, psychology, ocular anatomy and physiology, ophthalmic optics, microbiology, ophthalmic pharmacology and toxicology, ocular motility, and diseases of the eye; diagnostic and treatment procedures, including visual field testing, contact lenses, ophthalmic surgery, as well as care and maintenance of ophthalmic instruments and equipment. Students may also have a supervised clinical experience, during which they have opportunities to apply theory to practice through correlated and supervised instruction in clinical practice areas.

Essentials: Essentials are minimum educational standards adopted by the organizations listed above. Each new program is assessed in accordance with the Essentials, and accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request of the Department of Allied Health Education and Accreditation.

Inquiries

Careers: Inquiries regarding careers and curriculum should be addressed to:
Joint Commission on Allied Health Personnel in Ophthalmology
1812 N St Paul Rd
St Paul, MN 55109

Registration/Certification: Inquiries regarding certification may be addressed to:
Joint Commission on Allied Health Personnel in Ophthalmology
1812 N St Paul Rd
St Paul, MN 55109

Inquiries regarding certifying agencies other than the above should be addressed to:
National Commission on Health Certifying Agencies
1101 30th St, NW
Washington, DC 20007
OPHTHALMIC MEDICAL ASSISTANT SCHOOLS
ACCRREDITED BY THE AAA COMMITTEE ON
ALLIED HEALTH EDUCATION AND
ACCRREDITATION (CAHEA)

Ophthalmic Medical Assistant

<table>
<thead>
<tr>
<th>DISTRICT OF COLUMBIA</th>
<th>MICHIGAN</th>
<th>NEW YORK</th>
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<tbody>
<tr>
<td>Georgetown University Hospital</td>
<td>Detroit Inst of Ophthalmology</td>
<td>New York Eye and Ear Infirmary</td>
</tr>
<tr>
<td>Worcester, MA 06209</td>
<td>1915 E Jackson Ave</td>
<td>310 E 4th St.</td>
</tr>
<tr>
<td>Medical Director: P. Y. Evans, MD</td>
<td>Grosse Pointe Park, Michigan 48230</td>
<td>New York, New York 10020</td>
</tr>
<tr>
<td>Program Director: J. E. Frey</td>
<td>Medical Director: C. F. West, MD</td>
<td>Medical Director: A. C. West, MD</td>
</tr>
<tr>
<td>Class Date: 6 June Length: 24</td>
<td>Program Director: D. Presley, COT CST</td>
<td>Program Director: S. Shapiro</td>
</tr>
<tr>
<td>mos. Tuition: $3000 Awards: Cert. Next Review: 1998</td>
<td>Class Date: 2 July Length: 24</td>
<td>Class Date: 5 July Length: 24</td>
</tr>
<tr>
<td>University of Florida</td>
<td>St. Paul-Ramsey Medical Center</td>
<td>St. Paul, Minnesota 55101</td>
</tr>
<tr>
<td>Box 226 Tipton Hall</td>
<td>622 Jackson St.</td>
<td>Medical Director: C. T. West, MD</td>
</tr>
<tr>
<td>Gainesville, FL 32610</td>
<td>St. Paul-Ramsey Medical Center</td>
<td>Program Director: A. C. Gallop, MD</td>
</tr>
<tr>
<td>Medical Director: M. Goergen, MD</td>
<td>Class Date: 26 January Length: 21</td>
<td>Program Director: A. C. Gallop, MD</td>
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<tr>
<td>Boston University Medical Center</td>
<td>Medical University of South Carolina</td>
</tr>
<tr>
<td>80 E Concord St.</td>
<td>171 Ashley Avenue</td>
</tr>
<tr>
<td>Boston, Massachusetts 02118</td>
<td>Charleston, South Carolina 29425</td>
</tr>
<tr>
<td>Medical Director: B. A. Quinio, MD</td>
<td>Medical Director: W. W. Vaught, MD</td>
</tr>
<tr>
<td>Program Director: A. G. Gerbino</td>
<td>Program Director: A. C. Gallop, MD</td>
</tr>
<tr>
<td>Program Director: M. S. Gerbino, MD CST</td>
<td>Class Date: 7 June Length: 24</td>
</tr>
<tr>
<td>Class Date: 6 May Length: 24</td>
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APPENDIX C

HM-8452 ADVANCED X-RAY TECHNICIAN
INDIVIDUAL NEC FACT SHEET

<table>
<thead>
<tr>
<th>NEC</th>
<th>ANNUAL NAT'L QUOTA</th>
<th>NEC TITLE</th>
<th>CIVILIAN TITLE</th>
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<tbody>
<tr>
<td>8452</td>
<td>200</td>
<td>Advanced x-ray tech.</td>
<td>Radiographer</td>
</tr>
</tbody>
</table>

**NEC Description:**

Operates medical x-ray equipment in the performance of all diagnostic x-ray examinations. Assists the radiologist in fluoroscopic examinations, x-ray therapy, and special radiographic procedures. Processes x-ray films and maintains them on file as well as departmental records and files. Performs photodosimetric duties.

**Certifying Body:**

American Registry of Radiologic Technologists  
2600 Wayzata Blvd.  
Minneapolis, MN 20007

**Acceptance Criteria:**

Graduates of programs accredited by CAHEA and/or certified by the American Registry of Radiologic Technologists.

**Military Conversion:**

Army: MOS 91P  
Air Force: 90300

**Employment:**

Hospitals, clinics, private physician offices, industry, civil service and public health services facilities.

**Schools:**

(See attached sheet)
RADIOGRAPIER

Occupational Description: Radiographers provide patient services using imaging modalities, as directed by physicians qualified to order and/or perform radiologic procedures. Radiographers usually provide patient care essential to radiologic procedures; this includes exercising judgment when performing medical imaging procedures. When providing patient services, the radiographer adheres to the principles of radiation protection for the patient, self, and others.

Job Description: Radiographers accurately demonstrate anatomical structures on a radiograph by applying knowledge of anatomy, positioning, and radiographic technique. Radiographers must also be able to recognize emergency patient conditions and initiate lifesaving first aid and basic life support procedures. Additional duties may include evaluating equipment and processing film. Radiographers may be required to perform some of these duties at the patient's bedside or in the operating room.

Employment Characteristics: Most radiographers work in hospitals. In addition, positions in clinics, private offices, industry, civil service, and public health service facilities may be open to qualified professionals. Full-time radiographers usually work 40 hours per week. Salaries naturally vary according to experience, ability, and geographic location, but they are generally competitive with those of professions requiring comparable educational preparation. Entry salaries range from $13,000 to $19,000. Employment opportunities are available in most areas of the nation.

Educational Programs:

Length: Programs are generally 2 years, depending on program design and objectives and on student qualifications.

Prerequisites: Applicants must have a high school diploma (or equivalent), have other acceptable preparation, or have successfully completed a college entrance examination. Courses in physics, chemistry, biology, algebra, and geometry are strongly recommended.

Curriculum: Curricula of accredited programs include medical terminology; human structure and function; radiation biology; radiation protection; radiographic evaluation; patient care; and professional ethics and law. Related subjects may be required by the degree granting institution. Supervised clinical education is an essential part of the curriculum of all radiography programs.

Essentials: Essentials are minimum educational standards adopted by the American College of Radiology, the American Society of Radiologic Technologists, and the AMA Council on Medical Education. Each new program is assessed in accordance with the Essentials, and accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request from the Department of Allied Health Education and Accreditation.
Inquiries

Careers: Inquiries regarding careers and curriculum should be addressed to:
American Society of Radiologic Technologists
15000 Central Ave, SE
Albuquerque, NM 87123
(505) 298-4500

Inquiries regarding certifying agencies other than the above should be addressed to:
National Commission for Health Certifying Agencies
1101 30th St, NW
Washington, DC 20007

Certification/Registration: Inquiries regarding certification may be addressed to:
American Registry of Radiologic Technologists
2600 Wayzata Blvd
Minneapolis, MN 20007
(612) 377-8416
ALABAMA

St. Margaret's Hospital
301 S. Ripley St PO Drawer 311
Morgan, Alabama 36761
Medical Director: W. F. Reynolds, MD
Program Director: A. L. Wallace, RTR
Class Cap 25 Begins Jul Length 24
mos Tuscon $700 Awards Cert Next Review 1988

Coast City Hospital
805 University Blvd E
Tuscaloosa, Alabama 35403
Medical Director: W. A. Aich, MD
Program Director: C. G. Calvert
Class Cap 24 Begins Jul Length 24
mos Tuscon $500 Awards Cert Next Review 1988

Tuskegee Institute
Tuskegee Institute, Alabama 36088
Medical Director: S. Rattanash, MD
Program Director: J. Foreman, RT BS
Class Cap 20 Begins Jul Length 24
mos Tuscon $4400 Awards BS Next Review 1987

Tuskegee VA Med Ctr: East AL Med Ctr

ARIZONA

Northern Arizona University
CU Box 4020
Flagstaff, Arizona 86011
Medical Director: E. Y. Clark, MD
Program Director: D. D. Parks, MS RT(RT)
Class Cap 15 Begins Sep Length 24
mos Tuscon $500 Awards Cert Next Review 1986

St. Vincent Infirmary
12 St Vincent Circle
Little Rock, Arkansas 72205
Medical Director: R. T. Henman, MD
Program Director: P. S. Porter, RT(RT)
Class Cap 26 Begins Sep Length 24
mos Tuscon $450 Awards Cert Next Review 1988

U of AR for Medical Sciences
4301 W Marlow, Slot 541
Little Rock, Arkansas 72205
Medical Director: J. H. Newlin, MD
Program Director: P. S. Porter, RT(RT)
Class Cap 20 Begins Jul Length 24
mos Tuscon $450 Awards Cert Next Review 1988

ACREDITATION (CMEA)

Jefferson Regional Medical Center
1151 W 42nd Ave
Pine Bluff, Arkansas 71603
Medical Director: A. S. Johnson, MD
Program Director: H. S. Alcane, RT(RT)
Class Cap 20 Begins Jul Length 24
mos Tuscon $200 Awards Cert Next Review 1988

Arkansas State University
PO Box 10
State University Arkansas 72467
Medical Director: J. H. Backer, MD
Program Director: H. W. Pedigo, BS RT
Class Cap 24 Begins Jul Length 24
mos Tuscon $1170 Awards Cert Next Review 1985

Arkansas St Bernard's Reg Med Ctr Jonesboro
Springhead Mem Hosp: AR Methodist Hosp, Paragould

CALIFORNIA

Chaffey Community College
5885 Haven Ave
Alta Loma, California 91705
Program Director: D. W. Lowden, RTR
Class Cap 152 Begins Sep Length 24
mos Tuscon $100 Awards AS Cert Next Review 1985

Allsorth Comm Hosp: Desert Hosp
Ramsay Kaiser Permanent Hosp, Fontana
Parnham Comm Hosp: Gen Hosp, San Bernardino
San Antonio Comm Hosp, Uplands
Santa Valley Comm Hosp, J. C. Pettis VA Hosp, Loma Linda

C-5
INDIVIDUAL NEC FACT SHEET

NEC          NEC TITLE                        CIVILIAN TITLE
8454  Electroencephalography Technician  Electroencephalography Technologist

NEC Description:
Assists medical officer in performing electroencephalography tests. Prepares patients for examinations. Assists in operating EEG equipment to examine patients for organic brain diseases. Records test results. Maintains EEG equipment.

Certifying Body:
American Board of Registration of EEG Technologists, Inc.
California-Davis Medical Center
EEG Laboratory, Room 5203
Sacramento, CA 95817

American Board of Certified Registered Technicians-Technologists
P.O. Box 7058
Jacksonville, FL 32210

Acceptance Criteria:
Graduates of programs accredited by CAMEA and/or certified by American Board of Registration of EEG Technologists, Inc., and/or certified by American Board of Certified Registered Technicians-Technologists.

Military Conversion:
Army: MOS 91B75
Air Force: 9S2509/902703

Employment:
Neurology departments of hospitals, private offices of neurologists and neurosurgeons.

Schools:
(See attached sheet)
**ELECTROENCEPHALOGRAPHIC TECHNOLOGIST**

Occupational Description: Electroencephalography (EEG) is the scientific field devoted to recording and studying the electrical activity of the brain. EEG technicians and technologists operate a machine called an electroencephalograph, which records this activity, producing a written tracing of the brain's electrical impulses. This record is called an electroencephalogram.

Various kinds of brain disease can be diagnosed by neurologists and other qualified medical practitioners using the EEG.

Job Description: The EEG technologist is skilled in the following functions: patient handling, patient briefing, history taking and abstracting, properly applying recording electrodes, and understanding the optimal use of EEG equipment. The EEG technologist may also be required to apply EEG procedures to a specific patient's problem; to recognize, correct, or identify artifacts which are manifested during the recording; to manage medical emergencies in the laboratory; to correct instrument faults; to debrief the patient; and to write a descriptive report of the recording for use by the electroencephalographer. The responsibilities of the technologist may also include laboratory management and the supervision of EEG technicians.

Employment Characteristics: Although EEG personnel work primarily in the neurology departments of hospitals, many work in private offices of neurologists and neurosurgeons. The employment outlook for EEG technologists is expected to grow faster than the average for all occupations due to the increased use of EEGs in surgery and in diagnosing and monitoring patients with brain disease. EEG technologists generally work a 40-hour week.

**Educational Programs:**

**Length:** Twelve months or more, which may be integrated into a college sponsored program leading to a degree.

**Prerequisites:** High school diploma or equivalent.

**Curriculum:** Anatomy, physiology, and neuroanatomy—with major emphasis on the brain; as well as electronics and instrumentation, including personal and patient safety.

**Essentials:** Essentials are minimum educational standards developed by the Joint Review Committee on Education in Electroencephalographic Technology. The Essentials have been adopted by the following organizations collaborating with the American Medical Association as well as by the American Medical Association itself: American Electroencephalographic Society, American Medical Electroencephalographic Association, and the American Society of Electroencephalographic Technologists. Each new program is assessed in accordance with the Essentials, and accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request of the Department of Allied Health Education and Accreditation.
Inquiries

Careers: Inquiries regarding careers and curriculum should be addressed to:
American Society of Electroencephalographic Technologists
6th at Quint
Carroll, IA 51401

Registration/Certification: Inquiries regarding certification may be addressed to:
American Board of Registration of Electroencephalographic Technologists, Inc.
Secretary
California-Davis Medical Center
EEG Laboratory, Room 5203
Sacramento, CA 95817

American Board of Certified Registered EEG Technicians-Technologists
PO Box 7068
Jacksonville, FL 32210

Inquiries regarding certifying agencies other than the above should be addressed to:
National Commission on Health Certifying Agencies
1101 30th St, NW
Washington, DC 20007
# Electroencephalographic Technologist

## Electroencephalographic Technologist

**SCHOOLS ACCREDITED BY THEAMA COMMITTEE ON ALLIED HEALTH EDUCATION AND ACCREDITATION (CAEA)**

### ARIZONA
- **St. Joseph's Hospital and Medical Center**
  - PO Box 2071
  - Phoenix, Arizona 85001
  - Medical Director: J.C. White, MD
  - Program Director: D.M. Schenkel, B.EEG T
  - Class Cap: 12
  - Begin: Sep.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1988

### CALIFORNIA
- **Orange Coast College**
  - 2761 Fairview Rd PO Box 5005
  - Costa Mesa, California 92628-0120
  - Medical Director: D. Johnson, MD
  - Program Director: D. McKinley, MD
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1985

### FLORIDA
- **Weston Administration Medical Center**
  - St. Joseph's Hospital
  - Gainesville, Florida 32602
  - Medical Director: R.J. Richardson, MD
  - Program Director: M.K. Walker, CRNT
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1987

### IOWA
- **Kirkwood Community College**
  - 6011 Kirkwood Blvd
  - Polk Rapids, Iowa 50473
  - Medical Director: T. Vanatta, MD
  - Program Director: J. Gordon, B.EEG T
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1986

### LOUISIANA
- **L.S.U. Medical Center**
  - 1200 Granger St.
  - New Orleans, Louisiana 70112
  - Medical Director: S. Cooper, MD
  - Program Director: J.F. Brown, B.EEG T
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1987

### MASSACHUSETTS
- **Catherine Laboure College**
  - 2150 Dorchester Ave
  - Boston, Massachusetts 02124
  - Medical Director: D.E. O'Connor, MD
  - Program Director: J.F. Brown, B.EEG T
  - Class Cap: 24
  - Begin: Dec.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1986

### ILLINOIS
- **St. John's Hospital**
  - 900 E. Carbondale
  - Springfield, Illinois 62704
  - Medical Director: W.L. Breslin, B.EEG T
  - Class Cap: 24
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1985

- **Children's Hospital**
  - 300 S. Oldham Ave
  - Chicago, Illinois 60616
  - Medical Director: J. Glick, B.EEG T
  - Class Cap: 24
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1985

### RHODE ISLAND
- **Providence Hospital**
  - 101 Providence St
  - Warwick, Rhode Island 02886
  - Medical Director: J.F. Brown, B.EEG T
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1987

- **St. Paul's Hospital**
  - 300 S. Oldham Ave
  - Chicago, Illinois 60616
  - Medical Director: J.F. Brown, B.EEG T
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1985

### NEW YORK
- **Mount Sinai Medical Center**
  - 1000 York Ave
  - New York, New York 10021
  - Medical Director: J.F. Brown, B.EEG T
  - Class Cap: 12
  - Begin: Aug.
  - Length: 12 mos.
  - Tuition: $1,500
  - Awards: Cert.
  - Next Review: 1986
<table>
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<tr>
<th>NORTH CAROLINA</th>
<th>PENNSYLVANIA</th>
<th>VIRGINIA</th>
<th>WISCONSIN</th>
</tr>
</thead>
</table>
| Duke University Medical Center  
PO Box 3106 (IHM Alum)  
Durham, North Carolina 27710  
Medical Director: D.V. Lewis, MD  
Program Director: L. Olks, BS, EEG Tech  
Class Cap: 6  
Begins Sep Length 12 mos  
Tuition $1000 Awards Cert Next Review 1985  
Albany, VA Med Ctr | Crozer-Chester Medical Center  
15th St & Upland Ave  
Chester, Pennsylvania 19013  
Medical Director: L. Green, MD  
Program Director: E.M. Hayes, R. EEG Tech  
Class Cap: 10  
Begins Jul Length 12 mos  
Tuition $500 Awards Cert Next Review 1986  
Aberdeen Hattertown Med Ctr & Hosp  
St. Mary's Hosp, P. Taylor Hosp, Ridley Pl.  
Pitcairn Mem Hosp, Media, Bryn Mawr Hosp  
Philadelphia College of Osteopathic Medicine  
4150 City Line Ave  
Philadelphia, Pennsylvania 19131  
Medical Director: E.M. Carson, MD  
Program Director: M.J. Savarese, R. EEG Tech  
Class Cap: 6  
Begins Jan Length: 12 mos  
Tuition $4100 Awards Cert Next Review 1984  
Albany, T. Jefferson Hosp, Children's Hosp of Phil  | Medical Center Hospitals  
600 Greenview Dr  
Norfolk, Virginia 23507  
Medical Director: J. Ethridge, MD  
Program Director: L. O'Neal, BS, EEG Tech  
Class Cap: 6  
Begins Jul Length: 12 mos  
Tuition $500 Awards Cert Next Review 1985  
| Western Wisconsin Technical Institute  
South & West Sts  
La Crosse, Wisconsin 54601  
Medical Director: B. Voheoust, MD  
Program Director: M. Hayes, RDH  
Class Cap: 24  
Begins Jan Length: 20 mos  
Tuition: $4881 Awards Cert Next Review 1985  
Albany, T. Jefferson Hosp, Marshfield Clinic  
St. Francis Hosp, St. Paul-Ramsey Hosp, S.P.  
UW Hosp, Marshfield Methodist Hosp  
Jackson Co. Sacred Heart Hosp, Eau Claire, St. Mary's Hosp, Madison, St. Vincent's Hosp, BeSin Hosp, Green Bay |
APPENDIX E

HM-2463 OPTICIAN TECHNICIAN
INDIVIDUAL NEC FACT SHEET

N EC | NEC TITLE | CIVILIAN TITLE
---|---|---
8463 | Optician Technician | Optician

NEC Description:
Adjusts, fits, dispenses, and accomplishes all phases of fabrication of multifocal spectacles to prescription. Determines facial and spectacle measurements. Fabricates lenses as required. Inspects and certifies completed work. Operates vision screening devices. Prepares single-vision spectacles for issue. Interprets prescriptions. Marks, cuts, edges and inserts single-vision lenses into appropriate spectacle frames. Surface-grinds and polishes special single-vision and all multifocal lenses from ophthalmic lens blanks. Provides spectacle repair and replacement services. Maintains and repairs optical lab equipment.

Certifying Body:
American Board of Opticianary or National Contact Lense Examiners

Opticians Assos. of America
1250 Connecticut Avenue, N.W.
Washington, DC 20036
Phone: 252-3520

Acceptance Criteria:
Graduates of programs approved by the American Board of Opticianary, National Contact Lense Examiners, or Opticians Association of America. Certification by any of the above.

Military Conversion:
Army: 42E
Air Force: None

Employment:
Wholesale or larger retail optical establishments

Schools:
(See attached sheet)
OPTICIAN SCHOOLS ACREDITED BY THE AMERICAN BOARD OF OPTICIANARY OR NATIONAL CONTACT LENSE EXAMINERS OR THE OPTICIANS ASSOCIATION OF AMERICA

ALABAMA
Harry M. Ayers State Technical College, P.O. Box 1647, Anniston, AL 36201
- Technician
George C. Wallace State Community College, Dothan, AL 36301
- Technician

ARIZONA
Foné Community College, 2202 W. Anders, Phoenix, AZ 85009
- Mr. Eugene J. Warst, Jr., Program Director
AAS (Accredited CDA)
Member NFOS

CALIFORNIA
Cerritos College, 18801 Lakewood Blvd., Norwalk, CA 90650
- Mr. James Kent, Program Director
AAS (Accredited)
Los Angeles City College, 855 W. Vernon Ave., Los Angeles, CA 90022
- Mr. Victor Araki, Program Director
AAS (Accredited)
Valley College of Medical & Dental Studies, 4150 University Dr., West Hollywood, CA 90022
- Mr. Joel Salerno, Program Director
AAS (Accredited)

COLORADO
Aurora Public Schools, 620 Buckley Rd., Aurora, CO 80011
- Superintendent

FLORIDA
Broward Correctional Institute, P.O. Box 6540, Pembroke Pines, FL 33024
- Technician
Hillsborough Community College, 1211 S. 27th St., Tampa, FL 33602
- Program Director
AAS (Accredited)

GEORGIA
Macon Area Vocational Technical School, 450 Forsyth St., Macon, GA 31201
- Technician

MARYLAND
Essex Community College*, 7201 Romneys Bl., Baltimore, MD 21227
- Program Director
Howard Community College, 10175 Liberty Rd., Hunt Valley, MD 21031
- Program Director
Optometric Dispensing

MASSACHUSETTS
Haverhill Junior College, Haverhill, MA 01832
- Program Director

MICHIGAN
Ferris State College, Big Rapids, MI 49307
- Program Director
AAS (Accredited)
Member NFOS

MINNESOTA
Anoka Technical College, 501 E. 4th St., Anoka, MN 55303
- Program Director

MISSISSIPPI
South Mississipp College, 1133 E. 2nd St., Pearl, MS 39201
- Program Director

MISSOURI
Metropolitan Technical College, 3123 Gede St., Kansas City, MO 64108
- Program Director

NEBRASKA
Metropolitan Technical College, 1231 "T" Street, Omaha, NE 68137
- Program Director

NEW JERSEY
Cumberland County College, 2000 Industrial Tech. Institute, Vineland, NJ 08360
- Program Director

NEW MEXICO
S.W. Indian Polytechnic Institute, 9119
- Program Director

NEW YORK
New York City Community College, 320 Jay St., Brooklyn, NY 11201
- Program Director

NEW YORK CITY COMMUNITY COLLEGE, 320 Jay St., Brooklyn, NY 11201
- Program Director

NORTH CAROLINA
Catawba College, 723 N. Main St., Hickory, NC 28602
- Program Director

OHIO
Lake Erie College, 201 East Main St., P.O. Box 200, Saybrook, OH 43061
- Program Director

PENNSYLVANIA
Cuyahoga Community College, 12901 WSSE, Cleveland, OH 44102
- Program Director

RHODE ISLAND
Community College of Rhode Island, 1400 Blueflash Way, Centerville, RI 02863
- Program Director

SOUTH CAROLINA
Anderson Technical College, 201 South Main St., Anderson, SC 29625
- Program Director

TENNESSEE
Tennessee Technological University, 1100 E. Technology Dr., Cookeville, TN 38501
- Program Director

TEXAS
South Texas College, 9201 E. Red River St., McAllen, TX 78501
- Program Director

VERMONT
Vermont Technical College, 1200 South Main St., Montpelier, VT 05602
- Program Director

VIRGINIA
Floyd Community College, 13101 US Hwy 11, Floyd, VA 24091
- Program Director

WASHINGTON
Cascadia Community College, 7201 Fox Way, Everett, WA 98204
- Program Director

WEST VIRGINIA
West Virginia University, 1000 S. Main St., Morgantown, WV 26505
- Program Director

WISCONSIN
University of Wisconsin, 1460 Park St., Milwaukee, WI 53233
- Program Director

WYOMING
Wyoming Community College, 2950 College Dr., Cheyenne, WY 82002
- Program Director

Other: Accredited CDA
Member NFOS

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*Note: Some programs may have additional requirements or certifications. Please consult the respective institutions for detailed information.

---

Mr. Smidt, Program Director
Academy of Health Sciences, U.S. Army M.E. & O. School, Denver, CO 80240
- Major John F. Prest, Program Director
- Technician

Florida: Accredited CDA
Member NFOS

Mississippi: Accredited CDA
Member NFOS

Minnesota: Accredited CDA
Member NFOS

New Jersey: Accredited CDA
Member NFOS

New York: Accredited CDA
Member NFOS

Ohio: Accredited CDA
Member NFOS

Pennsylvania: Accredited CDA
Member NFOS

Texas: Accredited CDA
Member NFOS

Vermont: Accredited CDA
Member NFOS

Washington: Accredited CDA
Member NFOS

Wisconsin: Accredited CDA
Member NFOS

Wyoming: Accredited CDA
Member NFOS

Optical Technical Institute
<table>
<thead>
<tr>
<th>State</th>
<th>Institution</th>
<th>Address/Contact Information</th>
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<tbody>
<tr>
<td>NORTH CAROLINA</td>
<td>Durham Technical Institute</td>
<td>1000 N. Cabe St., Durham, NC 27703</td>
</tr>
<tr>
<td></td>
<td>Ms. Julie Yaffe, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td></td>
<td>O(A)</td>
<td></td>
</tr>
<tr>
<td>OHIO</td>
<td>Columbus Technical Institute</td>
<td>1020 E. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Ms. Rosa Perez, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td></td>
<td>Owens Technical College</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Mr. Rod Atterly, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>PENNSYLVANIA</td>
<td>Penn State College</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Mr. Joseph Vaille, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>SOUTH CAROLINA</td>
<td>Medical University of South Carolina</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
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<tr>
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<td>Ms. Evelyn Tomkinson, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>WASHINGTON</td>
<td>Seattle Central Community College</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
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<td>Mr. Paul Richards, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>WEST VIRGINIA</td>
<td>West Virginia University</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
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<td></td>
<td>Mr. Richard Smith, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>WISCONSIN</td>
<td>Milwaukee Area Technical College</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Mr. Robert Wright, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>CANADA</td>
<td>Seneca College of Applied Arts and Technology</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Mr. Michael C. Clement, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
<tr>
<td>QUEBEC</td>
<td>College Édouard-Montpetit, QC</td>
<td>1000 W. 11th St., Columbus, OH 43215</td>
</tr>
<tr>
<td></td>
<td>Mr. R.L. Yach, Program Director</td>
<td>AAS (Dispensing) Accredited Optometric Technician</td>
</tr>
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</table>

*Not on NFOS list.*
### NEC FACT SHEET

<table>
<thead>
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<tbody>
<tr>
<td>8466</td>
<td>Physical therapy tech.</td>
<td>Physical therapy tech.</td>
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</table>

**NEC Description:**

Assists a physical therapist and/or medical officer in administering physical therapy. Assists with the development, teaching, and supervision of exercise programs and activities of daily living to enhance patient's strength, endurance, coordination and mobility. Assists with assessment of range of motion, strength and ambulation skills. Teaches the use of ambulation aids. Applies physical modalities of whirlpool, paraffin bath, ultrasound, diathermy, infrared, hot and cold packs and electrical stimulation.

**Certifying Body:**

American Physical Therapy Assoc.
1156 15th Street, N.W.
Washington, DC 20005
Phone: 684-2782

**Acceptance Criteria:**

Graduates of programs accredited by the American Physical Therapy Association and/or certification by that same body.

**Military Conversion:**

- **Army:** MOS 97L
- **Air Force:** 91351/91371

**Employment:**

Hospitals, rehabilitation centers, nursing homes, pediatric clinics, mental hospitals, VA hospitals.

**Schools:**

(See attached sheet)
<table>
<thead>
<tr>
<th>STATE</th>
<th>PHYSICAL THERAPY PROGRAMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALABAMA</td>
<td>University of Alabama in Birmingham. Physical Therapy Assistant Program, 404 Merch Bldg., Room 401, Birmingham 35294. (Betty Canan) 205-934-4363</td>
</tr>
<tr>
<td>CALIFORNIA</td>
<td>Cerritos College, Physical Therapy Assistant Program, Health Occupations Div, 11110 E Alondra Blvd, Norwalk 90650. (Marsha Piotrowski) 213-860-2451, ext. 551</td>
</tr>
<tr>
<td></td>
<td>Azusa Community College. Physical Therapy Assistant Program, 250 Stevens Creek Blvd, Cupertino 95014. (Francis Loo-Williams) 408-996-4653</td>
</tr>
<tr>
<td></td>
<td>Los Angeles Pierce College, Physical Therapy Assistant Program, 801 Wimenda Ave, Woodland Hills 91371. (Kathie Hopkins, Ph.D.) 818-357-0351, ext. 261</td>
</tr>
<tr>
<td></td>
<td>Mount St. Mary’s College, Physical Therapy Assistant Program, 10 Chester Place, Los Angeles 90049. (Mary Jane Nelson-Scott) 213-476-2237, ext. 285 or 271</td>
</tr>
<tr>
<td></td>
<td>San Diego Mesa College. Physical Therapy Assistant Program, 7250 Mesa College Dr., San Diego 92111. (Judith Paunier) 714-230-6700, ext. 213</td>
</tr>
<tr>
<td>FLORIDA</td>
<td>Broward Community College, Physical Therapy Assistant Program, Allied Health Center Campus, 3501 SW Davie Road, Ft. Lauderdale 33313. (Susan Edelstein) 305-475-6780</td>
</tr>
<tr>
<td></td>
<td>Miami-Dade Community College, Physical Therapy Assistant Program, Medical Center Campus, 950 NW 20th St, Miami 33127. (Robert Patterson Ed.D.) 305-547-1388</td>
</tr>
<tr>
<td></td>
<td>St. Petersburg Junior College, Physical Therapy Assistant Program, PO Box 12319, St. Petersburg 33733. (Nathan Czajkowski) 813-381-6081, ext. 4835</td>
</tr>
<tr>
<td>GEORGIA</td>
<td>Medical College of Georgia, Physical Therapy Assistant Program, School of Allied Health Sciences. Dept. of Physical Therapy, Bldg. #CH-100, Augusta 30912. (Karen Grube) 404-829-2141</td>
</tr>
<tr>
<td>ILLINOIS</td>
<td>Belleville Area College. Physical Therapy Assistant Program, 2500 Caylyle Rd., Belleville 62221. (Wallace Strozman) 618-235-2700, ext. 362 or 267</td>
</tr>
<tr>
<td></td>
<td>Morton College. Physical Therapy Assistant Program, 3001 South Central Ave., Cicero 60650. (June Readish) 312-656-8000</td>
</tr>
<tr>
<td></td>
<td>Oakton Community College. Physical Therapy Assistant Program, 1600 E Golf Road, Des Plaines 60016. (Pamela Anderson) 719-635-1864</td>
</tr>
<tr>
<td></td>
<td>Southern Illinois University. Physical Therapy Assistant Program, Clinical Center, Wham 147, Carbondale 62901. (Fred Olsal 618-433-2361</td>
</tr>
<tr>
<td>INDIANA</td>
<td>Vincennes University, Physical Therapy Assistant Program, Health Occupations Dept, Vincennes 47591. (Roger Schneider) 812-882-3350</td>
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<tr>
<td></td>
<td>University of Evansville, Physical Therapy Assistant Program, PO Box 329, Evansville 47714. (Cheryl Ann Griffin) 812-479-2344</td>
</tr>
<tr>
<td>KANSAS</td>
<td>Co-py Community College. Physical Therapy Assistant Program, 1255 South Range, Coffey 67701. (Bonnie Harned) 913-462-3534</td>
</tr>
<tr>
<td>KENTUCKY</td>
<td>Jefferson Community College. Physical Therapy Assistant Program, POB 1036, Louisville 40201. (Patricia Jo Motei) 502-554-0881, ext. 201</td>
</tr>
<tr>
<td>MARYLAND</td>
<td>Community College of Baltimore. Physical Therapy Assistant Program, 2601 Liberty Heights Ave, Baltimore 21225. (Margaret Hervey) 301-396-0460</td>
</tr>
<tr>
<td>MASSACHUSETTS</td>
<td>Becker Junior College. Physical Therapy Assistant Program, Health and Social Services Dept, 617-791-9241, ext. 43</td>
</tr>
<tr>
<td></td>
<td>Lasell Junior College. Physical Therapy Assistant Program, Newton 02161. (Nancy Cardinali) 617-242-2000</td>
</tr>
<tr>
<td></td>
<td>Newbury Junior College. Dept of Physical Therapy, 100 Summer St, Hallowston 01745. (Louie Vargas) 617-649-6810</td>
</tr>
<tr>
<td></td>
<td>North Shore Community College. Physical Therapy Assistant Program, 215 Main St, Beverly 01915. (Shirley Heidtman) 617-927-4850</td>
</tr>
<tr>
<td></td>
<td>Springfield Technical Community College. Physical Therapy Assistant Program, 28 Arrowhead Pkwy, Springfield 01105. (Lucille Hood) 413-781-7222, ext. 3518</td>
</tr>
<tr>
<td>MICHIGAN</td>
<td>Delta College. Physical Therapy Assistant Curriculum, F-56 Allied Health Bldg. University Center 48710. (Ellie Case, Coordinator) 517-665-9147</td>
</tr>
<tr>
<td></td>
<td>Kellogg Community College. Physical Therapy Assistant Program, 450 North Ave, Battle Creek 49016. (Deborah Miller) 616-965-3931, ext. 310</td>
</tr>
<tr>
<td>MINNESOTA</td>
<td>St. Mary’s Junior College. Physical Therapy Assistant Program, 3200 South Sixth St, Minneapolis 55441. (Janet Mattelini) 612-332-5521, ext. 370</td>
</tr>
<tr>
<td>MISSOURI</td>
<td>Penn Valley Community College. Physical Therapy Assistant Program, 3201 Southwest Trafficway, Kansas City 64110. (Michael Farmer) 816-932-7600</td>
</tr>
<tr>
<td>NEW HAMPSHIRE</td>
<td>New Hampshire Vocational-Technical College. Physical Therapy Assistant Program, Hanover St Ext, Claremont 03743. (Garret Hull) 603-542-7745</td>
</tr>
<tr>
<td>NEW JERSEY</td>
<td>Atlantic Community College. Physical Therapy Assistant Program, Allied Health Division, Mays Landing 08330. (Elaine Thompson) 609-625-1111</td>
</tr>
<tr>
<td></td>
<td>Essex County College. Physical Therapy Assistant Program, 300 University Ave, Newark 07102. (Barbara Mandarino) 201-576-3417</td>
</tr>
<tr>
<td></td>
<td>Fairleigh-Dickinson University. Physical Therapy Assistant Program, 280 Madison Ave, Madison B7540. (Virginia Bemmel) 201-377-4700, ext. 345</td>
</tr>
<tr>
<td></td>
<td>Union County College. Physical Therapy Assistant Program, 1033 Springfield Ave, Cranford 07016. (Ellen Price) 201-899-2800, ext. 265</td>
</tr>
<tr>
<td>NEW YORK</td>
<td>Institute of Rehabilitation Medicine, Physical Therapist Assistant Program, New York University Medical Grp, 400 E 34th St, New York 10016. (Jack Hofsiefer) 212-340-6070</td>
</tr>
<tr>
<td></td>
<td>Maria College. Physical Therapy Assistant Program, 200 New Scotland Ave, Albany 12203. (Alice MacLean James) 518-489-7436</td>
</tr>
</tbody>
</table>
Kendall County Community College, Physical Therapist Assistant Program, 115 South St., Middleboro 10940, (Robert Bernstein) 96-343-1121, ext. 355

PARKER

WATERTOWN

BROOKLYN

OCEAN

NEW JERSEY

SOUTH CAROLINA

CUMBERLAND

TENNESSEE

CHAPEL HILL

TULSA

GARDEN CITY

CALIFORNIA

CITY COLLEGE

GASTON

MAURITIUS

HAWAII

MASSACHUSETTS

MONTANA

NEVADA

NORTH CAROLINA

OHIO

OKLAHOMA

OREGON

PENNSYLVANIA

PUERTO RICO

SOUTH CAROLINA

TENNESSEE

VIRGINIA

WASHINGTON

WISCONSIN

U.S. AIR FORCE MEDICAL DEPARTMENT

Volunteer State Community College, Physical Therapist Assistant Program, Allied Health P.O. Box 205, Nashville, TN 37206-4472. (Betty Hickman) 615-452-8600, ext. 202

Texas

Amarillo College, Physical Therapist Assistant Program, P.O. Box 447, Amarillo 79178. (Ed Harkness) 806-376-5111

Houston Community College, Physical Therapist Assistant Program, 3200 Sheeder St., Houston 77021. (George Wilson) 713-748-8560

St. Philip's College, Physical Therapist Assistant Program, 2111 Nebraska St., San Antonio 78203. (Jeanne Fenniger) 512-531-3416

Tarrant County Junior College, Physical Therapist Assistant Program, Northeast Campus, 828 Harwood Rd., Hurst 76053. (Mary Jane Castello) 817-281-7860, ext. 435

Virginia

Northern Virginia Community College, Physical Therapist Assistant Program, 8333 Little River Turnpike, Annandale 22003. (Janet Elledge) 703-332-3817

Washington

Green River Community College, Physical Therapist Assistant Program, 12401 SE 320th St., Auburn 98002. (Carol Sebich) 206-833-9111, ext. 343

Wisconsin

Milwaukee Area Technical College, Physical Therapist Assistant Program, Health Occupations Div., 1015 N 6th St, Milwaukee 53203. (Donald J. Gavinski) 414-278-6669

Community College of the Air Force, Physical Therapist Assistant Program, Group Intermediate Supervisor 913X0 Courses, School of Health Care Sciences, VSDB, Stop 114, Step-and-Air Force Base, Lackland AFB, San Antonio, TX 78235. (Captain Daniel L. Rumsey) 912-331-6232, ext. 2886

F-4
APPENDIX G

HM-8477 BIOMEDICAL EQUIPMENT TECHNICIAN (BASIC)
INDIVIDUAL NEC FACT SHEET

NEC

8477

Biomedical Equipment Technician (basic)

NEC Title

Biomedical Equipment Technician

Civilian Title

NEC Description:

Maintains and repairs mechanical and electromechanical medical equipment, i.e., OR, basal metabolism, laboratory, pharmaceutical, orthopedic, eye, ear, nose, and throat, dental and general medical and surgical diagnostic and treatment apparatus and machines under the supervision of a BMET electronic or x-ray. Participates in medical equipment preventive maintenance and safety programs.

Certifying Body:

Certification of Biomedical Equipment Technician Association for the Advancement of Medical Instrumentation
1501 North Ft. Myer Drive, Suite 602
Arlington, VA 22209

Acceptance Criteria:

Graduates of programs approved by and/or certified by the Biomedical Equipment Technician Association for the Advancement of Medical Instrumentation.

Military Conversion:

Army: MOS 35G
Air Force: 91850

Employment:

Hospitals, research institutes, medical instrument manufacturers.

Schools:

(See attached sheet)
APPENDIX H

HM-8478 BIOMEDICAL EQUIPMENT TECHNICIAN (ADVANCED)
INDIVIDUAL NEC FACT SHEET

**NEC** | **NEC TITLE** | **CIVILIAN TITLE**
---|---|---
8478 | Biomedical Equip. Tech. Advanced | Biomedical Equip. Tech.

**NEC Description:**
Maintains, repairs and installs mechanical, electromechanical, medical and surgical diagnostic and treatment apparatus, patient monitoring and recording systems. Supervises and conducts preventive maintenance programs, manages repair parts, advises local medical equipment and survey boards, coordinates medical equipment safety programs with local safety officers and renders technical advice and assistance as required. When serving in higher pay grades, acts as medical maintenance supervisor of inspector.

**Certifying Body:**
Certification of Biomedical Equipment Technician
Association for the Advancement of Medical Instrumentation
1901 North Ft. Meyer Drive, Suite 602
Arlington, VA 22209

**Acceptance Criteria:**
Graduates of programs accredited and/or certified by the Biomedical Equipment Technician Association for the Advancement of Medical Instrumentation.

**Military Conversion:**
Army: MOS 35U
Air Force: 91870

**Employment:**
Hospitals, research institutes, medical instrument manufacturers

**Schools:**
(See attached sheet)
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<th>State</th>
<th>College/Institute</th>
<th>Address</th>
<th>Contact</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Alabama</td>
<td>Regional Technical Institute (A, C)</td>
<td>1201 West Thomas Rd. Phoenix AZ 85013</td>
<td>Fred Staver</td>
<td>(602) 264-2492</td>
</tr>
<tr>
<td>Arkansas</td>
<td>Univ. of Arkansas (A)</td>
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<td>California</td>
<td>Ceritos College (A, C)</td>
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<td>Colorado</td>
<td>Colorado Technical College (A, J)</td>
<td>655 Elkhorn Dr.</td>
<td></td>
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<td>Brevard Community College (A)</td>
<td>1519 Clear Lake Rd. Cocoa FL 32922</td>
<td>Lisa Stowell</td>
<td>(321) 632-1111</td>
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<tr>
<td>Georgia</td>
<td>Dekalb Commun. Coll. (A) South Campus</td>
<td>3251 Pinterville Rd. Deatsen GA 30034</td>
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<td>Indiana</td>
<td>Indiana Vocational Technical Inst. (A)</td>
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<td>St. Phillips Coll. (A)</td>
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<td>Wisconsin</td>
<td>Milwaukee Area Tech. Coll. (A)</td>
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APPENDIX I

HM-3483 OPERATING ROOM TECHNICIAN
INDIVIDUAL NEC FACT SHEET

NEC
84E3

NEC TITLE
OR Technician

CIVILIAN TITLE
Surgical technologist

NEC Description:
Assists medical officer in carrying out surgical techniques. Provides nursing care, safety, and support to patients before, during and after surgery. Selects, sterilizes and prepares instruments and materials and the aseptic environment necessary for surgery. Assists anesthetist during operating procedures in giving artificial respiration and in the use of resuscitators. Maintains surgical equipment and records. Assists with instruction, supervision, and evaluation of students and other duties relating to surgery.

Certifying Body:
Association of Surgical Technologists, Inc.
8307 Shaffer Parkway
 Caller No. E
 Littleton, CO 80120

Acceptance Criteria:
Graduates of programs accredited by CAHEA and/or certified by the Association of Surgical Technologists, Inc.

Military Conversion:
Army: 91D
Air Force: 902Y2/90299/90200

Employment:
Hospitals, clinics
Schools:
(See attached sheet)
Occupational Description: Surgical technologists work principally in the operating room, performing functions and tasks that provide for a safe environment for surgical care, contribute to the efficiency of the operating room team, and support the operating surgeons, nurses, and others involved in operative procedures. Surgical technologists also work in other patient service settings which call for special knowledge of asepsis.

Job Description: Because of the marked variations in practice resulting from geographic, sociologic and economic factors, the ultimate rule of surgical technologists is not rigidly defined. Surgical technologists perform functions and tasks in support of operating surgeons, nurses, and other personnel which contribute to patient care and safety, to the efficiency of the operating team, and to the cleanliness of the surgical environment. Knowledge of and experience with aseptic surgical techniques qualify surgical technologists to prepare instruments and materials for use at the operating table and elsewhere and to assist in the use of these materials.

Employment Characteristics: A majority of surgical technologists work in hospitals, principally in operating rooms and occasionally in emergency rooms and other settings which call for knowledge of and ability in maintaining asepsis. A much smaller number work in a wide variety of settings and arrangements including out-patient surgicenters, either under the employ of physicians or as self-employed technologists.

Those who work in hospital and other institutional settings are usually expected to work rotating shifts or to accommodate on-call assignments to assure adequate staffing for emergency surgical procedures which need to be done during evening, night, weekend, and holiday hours. Otherwise, surgical technologists follow a standard work day.

Salaries vary depending upon the experience and education of the individual, the economy of a given region, the responsibilities of the position, and the working hours. Starting annual salaries begin in the range of $10,500, with more experienced technologists earning incomes of $16,000 and higher. Demand for technologists varies among communities and geographic regions. Prospective students are advised to assess the market for graduates within the region in which they would like to work before matriculating in an educational program. Such information is likely to be available through local employment offices, local accredited programs, and hospital councils or hospitals.

Educational Programs:
Length: Programs vary in length from 6 to 20 months. This variation is largely due to differences in student selection criteria and in the educational objectives of individual programs. The majority that are not designed around an associate degree model are of 9 to 10 months in length. The shorter programs are those designed for students who have successfully completed a course of instruction in practical nursing.

Prerequisites: High school diploma or equivalent.

Curriculum: Accreditation standards require clinical didactic and supervised practice instruction including an orientation to medical terminology, professional ethics, and medical-legal aspects of surgical care; to weights and measures as they pertain to operative procedures; and to anatomy, physiology, pathology, asepsis, and anesthesia. Instruction in the proper use and care of surgical equipment, and safe methods of transporting and positioning surgical patients is also essential. In addition, supervised clinical practice is required in surgical procedures common to general surgery, obstetrics and gynecology, ophthalmology, otorhinolaryngology, pediatrics, plastic surgery, urology, orthopaedic surgery, neurosurgery, thoracic surgery, cardiovascular surgery, oral surgery, and peripheral vascular surgery. The curriculum is not expected to develop a student's competency in the more complicated surgical procedures.

Essentials: Essentials are minimum educational standards adopted by the several collaborating organizations. Each new program is assessed in accordance with the Essentials. Accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request of the Department of Allied Health Education and Accreditation.
Careers: Inquiries regarding careers and curriculum should be addressed to:
Association of Surgical Technologists, Inc
Carrier No C
Littleton, CO 80120

Registration/Certification: Inquiries regarding certification may be addressed to:
Liaison Committee on Certification
Association of Surgical Technologists, Inc
Carrier No C
Littleton, CO 80120

Inquiries regarding certifying agencies other than the above should be addressed to:
National Commission on Health Certifying Agencies
1101 30th St, NW
Washington, DC 20007
Surgical Technologist Schools
ACCRREDITED BY THE AAMA COMMITTEE ON ALLIED HEALTH EDUCATION AND ACCREDITATION (CAEAA)

**Arkansas**

Preston Community College
PO Box 3643
Fort Smith, Arkansas 72903
Program Director: J. Howton, RN, ESD
Medial Director: E. Reinard, AO
Class No. 21, Begins Aug. Length: 9 mos
Tuition $3780 Awards Cert & Review 1989

**California**

CS Paramedical & Tech College
3735 Lane Dr. 92123
Long Beach, CA 90803
Program Director: K. Oten OA
Class No. 16, Begins Apr. Length: 10 mos
Tuition $5395 Awards Cert & Review 1989

Los Angeles Community College District
400 W. Woodlawn Dr.
Los Angeles, CA 90015
Program Director: G. Green
Class No. 3, Begins Aug. Length: 9 mos
Tuition $2550 Awards Cert & Review 1986

San Valley Academy
3150 South S
San Valencia, CA 93550
Program Director: W. Stanwyck RN
Class No. 2, Begins Jan. Length: 12 mos
Awards Cert & Review 1986

**Colorado**

Community College of Denver-Aurora Campus
1111 W. Colfax Ave.
Denver, Colorado 80204
Program Director: J. Rabin, RN
Class No. 21, Begins Jan. Length: 9 mos
Awards Cert & Review 1986

A & G

**Connecticut**

Danbury Hospital
24 Hospital Ave
Danbury, Connecticut 06810
Program Director: R. Soulie, RN
Class No. 11, Begins Aug. Length: 10 mos
Tuition $4530 Awards Cert & Review 1988

Manchester Community College
60 E. Main St. Westwicke
Manchester, Connecticut 06040
Program Director: E. T. Christensen
Class No. 15, Begins Sep. Length: 12 mos
Tuition $5160 Awards Cert & Review 1988

**Florida**

Daytona Beach Community College
PO Box 111
Daytona Beach, Florida 32014
Program Director: M. A. Hunter, RN, CEN
Educational Coordinator: P. J. Smith, ESD
Class No. 15, Begins Aug. Length: 11 mos
Tuition $1017 Awards Cert & Review 1988

**Georgia**

DeKalb Community College
495 N. Indian Creek Dr.
Clayton, Georgia 30265
Program Director: P. V. Knight, PhD
Class No. 15, Begins Sep. Length: 6 mos
Tuition $195 Awards Cert & Review 1984

**Idaho**

Boise State University
1910 University Dr.
Boise 83725
Program Director: E. K. Davis RN
Class No. 15, Begins Sep. Length: 6 mos
Tuition $195 Awards Cert & Review 1984

A & G

**Illinois**

**Indiana**

**Iowa**

**Kansas**

**Kentucky**

**Louisiana**

**Maine**

**Maryland**

**Massachusetts**

**Michigan**

**Minnesota**

**Mississippi**

**Missouri**

**Montana**

**Nebraska**

**Nevada**

**New Hampshire**

**New Jersey**

**New Mexico**

**New York**

**Ohio**

**Oklahoma**

**Oregon**

**Pennsylvania**

**Rhode Island**

**South Carolina**

**South Dakota**

**Tennessee**

**Texas**

**Utah**

**Virginia**

**Washington**

**West Virginia**

**Wisconsin**

**Wyoming**

**Surgical Technologist Schools**

**APKAMSAS**

Westside Community College
PO Box 3643
Fort Smith, Arkansas 72903
Program Director: J. Howton, RN, ESD
Medial Director: E. Reinard, AO
Class No. 21, Begins Aug. Length: 9 mos
Tuition $3780 Awards Cert & Review 1989

**California**

CS Paramedical & Tech College
3735 Lane Dr. 92123
Long Beach, CA 90803
Program Director: K. Oten OA
Class No. 16, Begins Apr. Length: 10 mos
Tuition $5395 Awards Cert & Review 1989

Los Angeles Community College District
400 W. Woodlawn Dr.
Los Angeles, CA 90015
Program Director: G. Green
Class No. 3, Begins Aug. Length: 9 mos
Tuition $2550 Awards Cert & Review 1986

San Valley Academy
3150 South S
San Valencia, CA 93550
Program Director: W. Stanwyck RN
Class No. 2, Begins Jan. Length: 12 mos
Awards Cert & Review 1986

**Colorado**

Community College of Denver-Aurora Campus
1111 W. Colfax Ave.
Denver, Colorado 80204
Program Director: J. Rabin, RN
Class No. 21, Begins Jan. Length: 9 mos
Awards Cert & Review 1986

**Connecticut**

Danbury Hospital
24 Hospital Ave
Danbury, Connecticut 06810
Program Director: R. Soulie, RN
Class No. 11, Begins Aug. Length: 10 mos
Tuition $4530 Awards Cert & Review 1988

Manchester Community College
60 E. Main St. Westwicke
Manchester, Connecticut 06040
Program Director: E. T. Christensen
Class No. 15, Begins Sep. Length: 12 mos
Tuition $5160 Awards Cert & Review 1988

**Florida**

Daytona Beach Community College
PO Box 111
Daytona Beach, Florida 32014
Program Director: M. A. Hunter, RN, CEN
Educational Coordinator: P. J. Smith, ESD
Class No. 15, Begins Aug. Length: 11 mos
Tuition $1017 Awards Cert & Review 1988

**Georgia**

DeKalb Community College
495 N. Indian Creek Dr.
Clayton, Georgia 30265
Program Director: P. V. Knight, PhD
Class No. 15, Begins Sep. Length: 6 mos
Tuition $195 Awards Cert & Review 1984

**Iowa**

**Kansas**

**Kentucky**

**Louisiana**

**Maine**

**Maryland**

**Massachusetts**

**Michigan**

**Minnesota**

**Mississippi**

**Missouri**

**Montana**

**Nebraska**

**Nevada**

**New Hampshire**

**New Jersey**

**New Mexico**

**New York**

**Ohio**

**Oklahoma**

**Oregon**

**Pennsylvania**

**Rhode Island**

**South Carolina**

**South Dakota**

**Tennessee**

**Texas**

**Utah**

**Virginia**

**Washington**

**West Virginia**

**Wisconsin**

**Wyoming**

A & G

Surgical Technologist

**ARKANSAS**

Westside Community College
PO Box 3643
Fort Smith, Arkansas 72903
Program Director: J. Howton, RN, ESD
Medial Director: E. Reinard, AO
Class No. 21, Begins Aug. Length: 9 mos
Tuition $3780 Awards Cert & Review 1989

**CALIFORNIA**

CS Paramedical & Tech College
3735 Lane Dr. 92123
Long Beach, CA 90803
Program Director: K. Oten OA
Class No. 16, Begins Apr. Length: 10 mos
Tuition $5395 Awards Cert & Review 1989

Los Angeles Community College District
400 W. Woodlawn Dr.
Los Angeles, CA 90015
Program Director: G. Green
Class No. 3, Begins Aug. Length: 9 mos
Tuition $2550 Awards Cert & Review 1986

San Valley Academy
3150 South S
San Valencia, CA 93550
Program Director: W. Stanwyck RN
Class No. 2, Begins Jan. Length: 12 mos
Awards Cert & Review 1986

**COLORADO**

Community College of Denver-Aurora Campus
1111 W. Colfax Ave.
Denver, Colorado 80204
Program Director: J. Rabin, RN
Class No. 21, Begins Jan. Length: 9 mos
Awards Cert & Review 1986

A & G

**CONNECTICUT**

Danbury Hospital
24 Hospital Ave
Danbury, Connecticut 06810
Program Director: R. Soulie, RN
Class No. 11, Begins Aug. Length: 10 mos
Tuition $4530 Awards Cert & Review 1988

Manchester Community College
60 E. Main St. Westwicke
Manchester, Connecticut 06040
Program Director: E. T. Christensen
Class No. 15, Begins Sep. Length: 12 mos
Tuition $5160 Awards Cert & Review 1988

**FLORIDA**

Daytona Beach Community College
PO Box 111
Daytona Beach, Florida 32014
Program Director: M. A. Hunter, RN, CEN
Educational Coordinator: P. J. Smith, ESD
Class No. 15, Begins Aug. Length: 11 mos
Tuition $1017 Awards Cert & Review 1988

**Georgia**

DeKalb Community College
495 N. Indian Creek Dr.
Clayton, Georgia 30265
Program Director: P. V. Knight, PhD
Class No. 15, Begins Sep. Length: 6 mos
Tuition $195 Awards Cert & Review 1984

**Illinois**

**Indiana**

**Iowa**

**Kansas**

**Kentucky**

**Louisiana**

**Maine**

**Maryland**

**Massachusetts**

**Michigan**

**Minnesota**

**Mississippi**

**Missouri**

**Montana**

**Nebraska**

**Nevada**

**New Hampshire**

**New Jersey**

**New Mexico**

**New York**

**Ohio**

**Oklahoma**

**Oregon**

**Pennsylvania**

**Rhode Island**

**South Carolina**

**South Dakota**

**Tennessee**

**Texas**

**Utah**

**Virginia**

**Washington**

**West Virginia**

**Wisconsin**

**Wyoming**

A & G

Surgical Technologist
Vocational Technical College

New Albany, Indiana 47151
Program Director: J. M. Brown, RN, BS

IOWA

Des Moines Area Community College

2000 W. 33rd St. Des Moines, Iowa 50313
Program Director: J. P. Jones, RN, BS

KANSAS

St. Francis Community College

412 N. 1st St. Wichita, Kansas 67214
Program Director: C. D. Croix, RN

KENTUCKY

Central KY State Voc-Tech Center

104 West Main St. Lexington, Kentucky 40502
Program Director: D. S. K. Baugh, RN, BS

Louisville Voc-Tech College

1201 E. Market St. Louisville, Kentucky 40202
Program Director: E. J. Ellis, RN

LOUISIANA

Alton Ochsner Medical Foundation

1516 Jefferson Hwy. New Orleans, Louisiana 70121
Program Director: R. M. Allen, MD

Charity Hospital of LA at New Orleans

1500 Touro Ave. 12th Fl

Program Director: S. K. Miller, RN, MSN

Massachusetts

Quincy Junior College

104 Wood Ave.

Program Director: J. M. Brown, RN, BS

Springfield Technical Community College

Armory Square

Program Director: R. L. L. Brown, RN, BS, M.B.

Minnesota

Anoka Area Voc-Tech Institute

1355 W. Main St.

Program Director: J. A. H. Rentz, RN, BS

North Eastern Voc-Tech College

1315 East St.

Program Director: E. J. Ellis, RN

Rochester Area Voc-Tech Institute

1335 W. 3rd St.

Program Director: J. M. Brown, RN, BS

South Central Voc-Tech College

1343 W. 3rd St.

Program Director: J. M. Brown, RN, BS

Mississippi

Hinds Junior College

1750 Chadwick Dr.

Program Director: J. J. Jackson, MSN, RN

Jackson, Mississippi 39204

Program Director: C. L. McNeely, RN

Montgomery College

3500 Highland Rd.

Program Director: E. J. Ellis, RN

Missouri

Independence MO Public Schools

1500 W. 3rd St.

Program Director: E. J. Ellis, RN

Washington University

1350 E. Jefferson St.

Program Director: J. M. Brown, RN, BS

Program Director: E. J. Ellis, RN

Program Director: E. J. Ellis, RN
South Plains College at Lubbock
1401 College Ave.
Lubbock, Texas 79336
Program Director: G. Pedigo RN
Class Cap: 24, Begins Sep, Length: 11 mos
Tur: 5555 $1095 Awards Cert Next Review 1986

Odessa College
191 W. University
Odessa, Texas 79764
Program Director: L. Bladwell RN
Class Cap: 15, Begins Sep, Length: 12 mos Tu: 5260 $700 Awards Cert Next Review 1986

San Jacinto College
8000 S. Loop West
Houston, Texas 77351
Program Director: C. B. Caskey RN
Class Cap: 20, Begins Aug, Length: 12 mos Tu: 5332 $572 Awards Cert Next Review 1986

Southwest College
1000 E. 2nd Ave.
Victoria, Texas 77901
Program Director: J. E. Kramer RN CNOA
Class Cap: 15, Begins Sep, Length: 12 mos Tu: 5267 $393 Awards Cert Next Review 1986

Southwest College, Joplin Campus
2100 Success Pl.
Joplin, Missouri 64801
Program Director: G. N. Cobb RN
Class Cap: 20, Begins Sep, Length: 12 mos Tu: 5845 $350 Awards Cert Next Review 1986

Virginia
Newport News Public Sch
Newport News, Virginia 23602
Program Director: D. S. Tanner RN
Class Cap: 12, Begins Sep, Length: 12 mos Tu: 5650 $700 Awards Cert Next Review 1985

Winchester Medical Center, Inc
526 W. MAIN St.
Winchester, Virginia 22602
Program Director: S. H. Messer RN BSN
Class Cap: 6, Begins Sep, Length: 12 mos Tu: 52000 Awards Cert Next Review 1986

Washington
Spokane Community College
5810 Geiger St.
Spokane, Washington 99207
Program Director: L. Roberts RN BSN

West Virginia
West Virginia Northern Community College
15th & Jacobs Sts.
Wheeling, West Virginia 26003
Program Director: J. E. Barnes RN

Wisc-Oshkosh
Moraine Park Technical College
215 N. National Ave.
Fond du Lac, Wisconsin 54935
Program Director: J. Thomas RN MS
Class Cap: 16, Begins Jan, Length: 11 mos Tu: 5700 Awards Cert Next Review 1986

Northeast Wisconsin Technical College
2740 W. Mason St. PO Box 10242
Green Bay, Wisconsin 54307 9042
Program Director: L. Kept RN MS
Class Cap: 18, Begins Aug, Length: 9 mos Tu: 5815 or $345 or $950 Awards Cert Next Review 1986

Western Wisconsin Technical Institute
S. & Vene Sts.
La Crosse, Wisconsin 54601
Program Director: J. A. Travis MS
Class Cap: 24, Begins Aug, Length: 9 mos Tu: 5911 $1006 $2650 Awards Cert Next Review 1986

Milwaukee Area Technical College
1015 N. 62nd St.
Milwaukee, Wisconsin 53202
Program Director: J. Dyer RN
Class Cap: 36, Begins Aug, Length: 9 mos Tu: 5638 $1556 Awards Cert Next Review 1986

Waukesha County Technical Institute
600 Main St.
Pewaukee, Wisconsin 53072
Program Director: D. L. Verhaegh RN VSN Asst.

Mid-State VTAE District
500 32nd St N
Wisconsin Rapids, Wisconsin 54494
Program Director: K. L. Hansen RN
Medical Director: J. L. Huerlim RN MD
APPENDIX J

HM-8501 LABORATORY TECHNICIAN (BASIC)
<table>
<thead>
<tr>
<th>NEC</th>
<th>NEC TITLE</th>
<th>CIVILIAN TITLE</th>
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<tr>
<td>8501</td>
<td>Basic Lab. Tech.</td>
<td>Medical Lab Tech. Certified</td>
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</table>

**NEC Description:**

Conducts chemical and bacteriological lab tests. Sets up and adjusts lab apparatus and equipment. Performs blood tests, blood counts, urinalysis, bacteria tests, and malaria smears. Identifies and classifies animal parasites and insects affecting man.

**Certifying Body:**

National Certification Agency for Medical Lab Personnel
1725 DeSales Street, N.W., Suite 403
Washington, DC 20035

**Acceptance Criteria:**

Graduates of programs accredited by CAHEA and/or certified by the National Certification Agency for Medical Lab Personnel.

**Military Conversion:**

Army: MOS 92B51, 92320 plus 91B
Air Force: 92450

**Employment:**

Hospitals, clinics

**Schools:**

(See attached sheet)
MEDICAL LABORATORY TECHNICIAN
(CERTIFICATE)

Occupational Description: Laboratory tests play an important role in the detection, diagnosis, and treatment of many diseases. Medical laboratory workers perform these tests under the supervision or direction of pathologists (physicians who diagnose the causes and nature of disease) and other physicians, or scientists who specialize in clinical chemistry, microbiology, or biological sciences. Medical laboratory technicians (certificate) perform many routine procedures in the clinical laboratory under the direction of a qualified physician and/or medical technologist.

Job Description: Medical laboratory technicians (certificate) perform routine, uncomplicated procedures in the areas of hematology, serology, blood banking, urinalysis, microbiology, and clinical chemistry. These procedures involve the use of common laboratory instruments in processes where discrimination is clear, errors are few and easily corrected, and results of the procedures can be confirmed with a reference test or source within the working area.

Employment Characteristics: Most medical laboratory personnel work in hospital laboratories, averaging a 40-hour week. Salaries vary depending on the employer and geographic location. Employment opportunities are expected to be favorable through the mid-1980s.

Educational Programs:

Length: The period of clinical education is usually 12 months and results in the granting of a certificate.

Prerequisites: High school diploma or equivalent.

Curriculum: Includes areas of medical ethics and conduct, medical terminology, basic laboratory solutions and media, basic elements of quality control, blood collecting techniques, basic microbiology, hematology, serology, and immunohematology.

Essentials: Essentials are minimum educational standards adopted by NAACLS and the AMA Council on Medical Education. Each new program is assessed in accordance with the Essentials, and accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request to the Department of Allied Health Education and Accreditation.
Medical Laboratory Technician, Certified
Schools Accredited by the AMA Committee
On Allied Health Education and Accreditation
(CAHEA)

Arizona

Phoenix College
1200 W Thomas Rd
Phoenix, Arizona 85013

Medical Director: B. L. Low
Program Director: D. M. Shear

Class Cap: 10

Begin: Aug 24

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1989

Affiliates:

VA Hospital

Sonora Clinical Laboratories

California

N第一次 School of Health Sciences
San Diego, California 92124

Program Director: R. L. Smith

Class Cap: 10

Begin: Aug 24

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1989

Affiliates:

VA Hospital

Sonora Clinical Laboratories

Colorado

T.Y. Picketts Tech Ctr, Aurora Public Schs
Aurora, Colorado 80011

Program Director: W. L. K. M

Class Cap: 10

Begin: Aug 24

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1990

Affiliates:

U. Hospital

Longmont Med Ctr

Kaiser

Pomona Clinics

Fitzsimmons Army Med Ctr

Denver Gen Hosp

Lutheran Med Ctr

Burlington Mem Hosp

Colorado Springs

Florida

Shoreline Vocational Tech Center
5400 Shermans Rd
Miami, Florida 33122

Medical Director: W. E. Smith

Program Director: B. M. George

Class Cap: 10

Begin: Aug 24

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1990

Affiliates:

North Broward Hosp

Boca Raton Beach

Broward County Med Ctr

Holy Cross hosP.

49th District

Plantation Gen Hosp

Mem Hosp

Hollywood Med Ctr

Bissett

Okeechobee Mem Hosp

Broward County Ctr

Florida

GeorgiA

Atlanta Area Technical School
1560 Stewart Ave
Atlanta, Georgia 30310

Medical Director: N. Warren

Program Director: C. B. Bost

Educational Coordinator: C. J. Clark

Class Cap: 10

Begin: Apr 15

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1989

Affiliates:

Clayton Gen Hosp

Riverdale

Southwest Community College

S. Floyd Hosp

E. Atlanta Hosp

Douglas County

Gen Hosp

Douglasville Physicists

Ponce

Hosps

Phlebotomy Service Professional Assoc.

VA Med Ctr

Augusta Area

Augusta Area Technical School
1360 Diamond Way
Augusta, Georgia 30901

Medical Director: B. L. Low

Program Director: J. D. Moore

Educational Coordinator: J. L. D. Moore

Class Cap: 10

Begin: Jul 15

Length: 12

mos.

Tuition: $5543

Awards: Cert

Next Review: 1989

Affiliates:

Clinic

Sudbury

Maine

Hosps

Augusta

Banks

Commercial Hosp
APPENDIX K

HM-8506 LABORATORY TECHNICIAN (ADVANCED)
INDIVIDUAL NEC FACT SHEET

NEC  NEC TITLE  CIVILIAN TITLE
8506  Advanced lab tech  Medical lab tech, A.D.

NEC Description:
Performs and supervises the performance of advanced lab procedures such as the autoanalyzers, recording spectrophotometers; blood gas analyzers, flame photometers (emission and absorption), osmometers, gas chromatographs, electrophoreses apparatus, sequential multiple analyzers, and other procedures as required. Performs all phases of blood bank operation, hematology, including coagulation studies, immunoserology, urinalysis, lab quality control, and diagnostic microbiology.

Certifying Body:
National Certification Agency for Medical Lab Personnel
1725 De Sales Street, N.W. Suite 403
Washington, DC 20036

Acceptance Criteria:
Graduates of programs accredited by CAHEA and/or certified by the National Certification Agency for Medical Lab Personnel.

Military Conversions:
Army: MOS 92330-92350
Air Force: 92450/92470

Employment:
Hospitals, clinics

Schools:
(See attached sheet)
MEDICAL LABORATORY TECHNICIAN
(ASSOCIATE DEGREE)

Occupational Description: Laboratory tests play an important role in the detection, diagnosis, and treatment of many diseases. Medical laboratory workers perform these tests under the supervision or direction of pathologists (physicians who diagnose the causes and nature of disease) and other physicians, or scientists who specialize in clinical chemistry, microbiology, or the other biological sciences. Medical laboratory workers develop data on the blood, tissues, and fluids in the human body by using a variety of precision instruments.

Medical laboratory technician (associate degree) programs are conducted in junior or community colleges, two-year divisions of universities and colleges, or in other recognized institutions granting associate degrees.

Job Description: Medical laboratory technicians (associate degree) perform all of the routine tests in an up-to-date medical laboratory and can demonstrate discrimination between closely similar items and correction of errors by use of pre-set strategies. The technician has knowledge of specific techniques and instruments and is able to recognize factors which directly affect procedures and results. For confirmation of results, the technician conducts more than one test for each specialty area. The technician also monitors quality control programs within predetermined parameters.

Employment Characteristics: Most medical laboratory personnel work in hospital laboratories, averaging a 40-hour week. Salaries vary depending on the employer and geographic location. Employment opportunities are expected to be favorable through the mid-1980s.

Educational Programs:

Length: The period of education is usually two academic years in duration and results in the granting of an associate degree to the students.

Prerequisites: High school diploma or equivalent. The applicant must also meet the admission requirements of the sponsoring educational institution.

Curriculum: Includes courses in teaching and clinical laboratories. Courses are taught on campus and in affiliated hospital(s). The teaching laboratory on campus focuses on general knowledge and basic skills, understanding principles, and mastering procedures of laboratory testing. The clinical courses include application of basic principles commonly used in the diagnostic laboratory. Technical instruction includes procedures in hematology, serology, chemistry, microbiology, and immunohematology.

Essentials: Essentials are minimum educational standards adopted by NAACLS and the AAMC Council on Medical Education. Each new program is assessed in accordance with the Essentials, and accredited programs are periodically reviewed to determine whether or not they remain in substantial compliance. The Essentials with Guidelines are available upon written request to the Department of Allied Health Education and Accreditation.
APPENDIX L

HM-8732 DENTAL EQUIPMENT REPAIR TECHNICIAN
ACCREDITED BY CERTIFICATION OF BIOMEDICAL EQUIPMENT TECHNICIAN ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION

A = Associate's Degree  
B = Bachelor's Degree  
C = Certificate

Alabama
Regional Technical Institute (A,C)  
University of Alabama  
University Station  
Birmingham AL 35294  
Contact: Robert Heacock  
(205) 934-4194

California
Cerritos College (A,C)  
11110 East Alomnda Blvd.  
Norwalk CA 90650  
Contact: Glen Hubrecht  
(213) 560-2451 ext. 418

Colorado
Colorado Technical College (A,S)  
655 Elkton Dr.  
Colorado Springs CO  
Contact: Leary O'Gorman  
(303) 598-0200

Florida
Brevard Community College (A)  
1519 Clear Lake Rd.  
Cocoa FL 32922  
Contact: Lyle Stowell  
(305) 632-1111

Illinois
Southern Illinois University (B*)  
School of Technical Careers  
Carbondale IL 62901  
Contact: William Shupe  
(618) 536-6682

Michigan
Schoolcraft College (A)  
18600 Hagerty Rd.  
Livonia MI 48152  
Contact: Jerry Cavanaugh  
(313) 991-6400

Missouri
Forest Park Community College (A)  
5600 Oakland  
St. Louis MO 63110  
Contact: Dan Landiss  
(314) 644-9309

North Carolina
Caldwell Community College (A)  
1000 Hickory Blvd.  
Hudson NC 28635  
Contact: B. J. Hodges  
(704) 728-4323

Ohio
Cincinnati Technical College (A)  
3520 Central Pkwy.  
Cincinnati OH 45223  
Contact: Mike Carroll  
(513) 559-1520

Pennsylvania
Pennsylvania State University (A)  
3550 7th Street Rd.  
New Kensington PA 15068  
Contact: John Loney  
(412) 339-7561

Texas
St. Phillips College (A)  
2111 Nevada St.  
San Antonio TX 78203  
Contact: Ercolino Crugnale  
(512) 331-3423

*Bachelor's in Elec. Tech. with Biomedical Option.
A = Associate's Degree
B = Bachelor's Degree
C = Certificate

Wisconsin

Milwaukee Area Technical College (A)
1015 N. 6th St.
Milwaukee WI 53203
Contact: John Judkins
(414) 278-6409

Western Wisconsin Technical Institute (A)
6th and Vine Sts.
LaCrosse WI 54601
Contact: William Welch, Sr.
(608) 785-9178