Orthotics and Prosthetics

MAKE A CAREER OF MAKING A DIFFERENCE
The Orthotics, Prosthetics & Pedorthics (HOPE) Careers Consortium is a partnership of five institutions:

- Baker College in Flint, Michigan
- Century College in White Bear Lake, Minnesota
- Oklahoma State University Institute of Technology in Okmulgee, Oklahoma
- Spokane Falls Community College in Spokane, Washington
- St. Petersburg College in St. Petersburg, Florida

Together, we are building exciting new programs that provide valuable career education and training in the orthotics, prosthetics, and pedorthics (O&P) sector. There is an urgent need in the U.S. to expand the pipeline of workers qualified to serve individuals living with limb loss or disabilities due to chronic disease or war-related injury—and our programs focus on that need.

The HOPE Careers Consortium is supported by a grant awarded from the Trade Adjustment Assistance Community College and Career Training (TAACCCT) Grant Program from the U.S. Department of Labor.

Through this partnership, we are advancing the O&P education and career training we deliver by increasing the number of key credentials offered and matching them to the skills required by O&P employers and better preparing TAA-eligible workers, veterans, and other adults for high-wage, high-skill employment in O&P occupations.

All five of the HOPE Careers Consortium colleges offer occupational training leading to industry-recognized certifications and college degrees in the O&P profession. For more information, visit www.hopecareers.org or www.opcareers.org.

For more information on a member school, click its logo below.
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O&P boasts a range of exciting employment opportunities, including fitters, pedorthists, technicians, assistants, and practitioners.

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Imagine a career that blends art, science, technology, healthcare, and creativity. Imagine a career that changes people’s lives. A career in orthotics and prosthetics offers all this and more.

Orthotics and prosthetics (O&P) is the evaluation, fabrication, and custom fitting of orthopedic braces, known as “orthoses,” and artificial limbs, known as “prostheses.” O&P professionals are a crucial part of the healthcare team, working with patients, physicians, physical and occupational therapists, nurses, and other care providers.

Orthotic and prosthetic patients can be any age, size, race, gender, or socioeconomic status, but they all have one thing in common: They need the services of caring and trained O&P professionals. Some need short-term care as a result of an injury. Others have conditions that require lifelong care.

Orthotic patients need external support to a part of the body because of neuromuscular or skeletal conditions such as cerebral palsy, scoliosis, spina bifida, traumatic brain injury, stroke, plagioccephaly, multiple sclerosis, sports injuries, and back strain. Other patients may require orthoses because they have foot conditions as a consequence of diabetes, high or flat arches, or repetitive stress.

Prosthetic patients may have been born with limb deficiency or have experienced amputation due to trauma, cancer, infection, or abnormalities in blood vessels or nerves.

O&P boasts a range of exciting employment opportunities, including fitters, pedorthists, technicians, assistants, and practitioners. All are rewarding careers in great demand throughout the country. Advances in engineering have opened amazing new possibilities for O&P devices and have given O&P professionals exciting new options to help their patients, including robotics, computer-aided design and manufacturing, 3-D printing, lasers, and cutting-edge materials from the aerospace industry.

O&P professionals say some of the highlights of their careers are the variety of skills they use, the flexibility of their work schedules, their connection with patients, and financial security. But they consistently cite the fulfillment that comes with helping patients regain mobility and lead productive lives as the most satisfying aspect of their jobs.
A Career in Demand

72,000,000
Number of Americans who will be 65 or older by 2030

Diabetes 15.3 million
New cases in the U.S. since 1980

Heart Disease 27%
Projected increase in cases in U.S., women by 2030; the projected increase is 26 percent for men

Obesity 22.3%
Increase in incidence since 1960

Practicing O&P Professionals

2,784 Practitioners
907 Assistants
836 Technicians
2,347 Pedorthists
2,347 Orthotic Fitters
2,535 Mastectomy Fitters
616 Therapeutic Shoe Fitters

Approximate percentage of O&P professionals who are 55 or older and likely to retire over the next 10 years. It is critical that more qualified students enter O&P programs to assure access to quality care for individuals with amputations and orthopedic impairments.

Average Total Compensation by Certification

<table>
<thead>
<tr>
<th>Certification</th>
<th>Average Total Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practitioners</td>
<td>$75,300</td>
</tr>
<tr>
<td>Assistants</td>
<td>$43,000</td>
</tr>
<tr>
<td>Technicians</td>
<td>$45,630</td>
</tr>
<tr>
<td>Pedorthists</td>
<td>$52,065</td>
</tr>
<tr>
<td>Fitters</td>
<td>$39,500</td>
</tr>
</tbody>
</table>

5American Orthotic and Prosthetic Association (AOPA), 2013 Compensation and Benefits Report. Note: Compensation varies based on factors such as geographic location, years of experience, practice setting, and benefits.
Careers

**Fitters**

**Therapeutic shoe fitters**

A therapeutic shoe fitter provides non-custom therapeutic shoes and non-custom multi-density shoe inserts for patients diagnosed with diabetes. They assess patients’ needs, develop treatment plans, and provide follow-up care. Therapeutic shoe fitters may work in specialty shoe stores, patient care facilities, pharmacies, and long-term care facilities.

**Mastectomy fitters**

Mastectomy fitters fit and deliver external breast prostheses, custom breast prostheses, mastectomy garments, lymphedema garments, and other breast care products to treat physiological asymmetry as a result of mastectomy, trauma, or congenital defect. A mastectomy fitter works directly with patients to assess their needs, formulate treatment plans, and provide follow-up care. They may work in such settings as retail outlets, patient care facilities, mastectomy boutiques, and cancer care centers.

**Orthotic fitters**

An orthotic fitter fits and delivers pre-fabricated orthotic devices. They assess patients’ needs, develop treatment plans, and provide follow-up care. An orthotic fitter works in settings such as patient care facilities, physicians’ offices, and pharmacies.

**Pedorthists**

A pedorthist fabricates, fits, and modifies foot orthoses and shoes to alleviate painful or debilitating conditions caused by disease, congenital condition, overuse, or injury. A pedorthist has studied foot anatomy and pathology, biomechanics, shoe construction and modification, foot orthosis fabrication and materials, footwear fitting, and management of medical conditions that originate at or below the ankle. Pedorthists may work in patient care facilities, VA facilities, and rehabilitation facilities.

**Orthotic and prosthetic technicians**

The technician fabricates, repairs, and maintains devices to provide the best possible fit, function, and appearance in consultation with the practitioner. The technician is an expert in techniques and materials used to fabricate devices and is skilled in the use of tools and machines. Technicians work in settings such as fabrication laboratories, VA facilities, and patient care facilities.
O&P assistants

Under the guidance and supervision of the practitioner, an O&P assistant performs orthotic and prosthetic tasks related to the management of patients. The assistant also fabricates, repairs, and maintains devices to provide appropriate fit, function, and appearance. They may work in settings such as patient care facilities, hospitals, and VA facilities.

O&P practitioners

An orthotist designs and fabricates custom-made orthopedic braces, or “orthoses,” and fits pre-fabricated devices. A prosthetist designs, fabricates, and fits custom-made artificial limbs, or “prostheses.” Orthotists and prosthetists (i.e., practitioners) evaluate patients, formulate treatment plans, and provide follow-up care and continued patient management that ensures the overall welfare of the patient. Practitioners work in settings including patient care facilities, hospitals, VA facilities, rehabilitation facilities, long-term care facilities, and patients’ homes.
Pathways to the Profession

You may choose to make any of these a lifelong career or further your education and training to transition into other O&P roles.

Therapeutic shoe fitter

*Provides patients with non-custom therapeutic shoes and multi-density shoe inserts.*

- High school diploma, GED, or college degree
- Pre-certification education course
- 250 hours of patient care
- Certification exam

Mastectomy fitter

*Fits patients for external breast prostheses and provides other post-mastectomy products and services.*

- High school diploma, GED, or college degree
- Pre-certification education course
- 500 hours of patient care
- Certification exam

Orthotic fitter

*Fits patients with pre-fabricated orthotic devices.*

- High school diploma, GED, or college degree
- Pre-certification education course
- 1,000 hours of patient care
- Certification exam
**Technician**

*Fabricates, repairs, and maintains devices.*

- High school diploma, GED, or college degree
- Technician education program, or two years of work under the supervision of a certified practitioner or technician
- Certification exam

**Pedorthist**

*Manufactures, fits, modifies, and provides patients with foot orthoses and shoes.*

- High school diploma, GED, or college degree
- Pre-certification education course
- 1,000 hours of patient care
- Certification exam

**Practitioner**

*Manages all aspects of patient care. Designs, fabricates, and fits devices.*

- O&P master’s degree
- Residency in orthotics, prosthetics, or both
- Certification exam

**Assistant**

*Performs patient management tasks under the supervision of a certified practitioner. Fabricates, repairs, and maintains devices.*

- High school diploma, GED, or college degree
- Courses in human anatomy, physics, and medical terminology
- One year of patient care
- Certification exam
O&P Schools

All programs listed are accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) or the National Commission on Orthotic and Prosthetic Education (NCOPE).

**Technician Programs**

**Baker College of Flint**
Flint, Michigan
www.baker.edu/programs-degrees/orthotic-prosthetic-technology-associate

**Century College**
White Bear Lake, Minnesota

**Oklahoma State University Institute of Technology**
Okmulgee, Oklahoma
www.osuit.edu/op

**Spokane Falls Community College**
Spokane, Washington
www.spokanefalls.edu/OandP

**St. Petersburg College**
St. Petersburg, Florida
www.spcollege.edu/opt

**Francis Tuttle Technology Institute**
Oklahoma City, Oklahoma
www.francistuttle.edu/classOfferings

**Joliet Junior College**
Joliet, Illinois
www.jjc.edu/orthotics-prosthetics/Pages/default.aspx

**Practitioner Programs**

**Concordia University/Century College**
St. Paul, Minnesota
www.csp.edu/academics/graduate/master-of-science-orthotics-prosthetics

**St. Petersburg College/Florida State University**
St. Petersburg, Florida
www.spcollege.edu/op

**Alabama State University**
Montgomery, Alabama
www.alasu.edu/academics/colleges-departments/health-sciences/prosthetics-orthotics/index.aspx

**Baylor College of Medicine**
Houston, Texas
www bcm.edu/education/schools/school-of-allied-health-sciences/programs/orthotics-and-prosthetics

**California State University Dominguez Hills**
Long Beach, California
www.csudh.edu/oandp

**Eastern Michigan University**
Ypsilanti, Michigan
www.emich.edu/chhs/hphp/orpr

**Georgina Institute of Technology**
Atlanta, Georgia
www.ap.gatech.edu/mspo

**Loma Linda University**
Loma Linda, California
www.llu.edu/allied-health/sahp/op/elmsop.page

**Northwestern University**
Chicago, Illinois
www.nupoc.northwestern.edu

**University of Hartford**
West Hartford, Connecticut
www.hartford.edu/mspo

**University of Pittsburgh**
Pittsburgh, Pennsylvania
www.shrs.pitt.edu/po

**University of Texas Southwestern Medical Center**
Dallas, Texas
www.utsouthwestern.edu/po

**University of Washington**
Seattle, Washington
www.rehab.washington.edu/education/degree/po

**Pedorthic Programs**

**St. Petersburg College**
St. Petersburg, Florida
www.spcollege.edu/orthotics-ceu

**Francis Tuttle Technology Center**
Oklahoma City, Oklahoma
www.francistuttle.edu/classOfferings

**Kennesaw State University**
Marietta, Georgia
www.ccpe.kennesaw.edu/pedorthics
Orthotic Fitter Programs

Ohio State University Institute of Technology ★
Okmulgee, Oklahoma
www.osuit.edu/op

St. Petersburg College ★
St. Petersburg, Florida
www.spcollege.edu/orthotics-ceu

CFS Allied Health Education
Various locations
www.cfslearningstore.com/ocart/

DeRoyal
Powell, Tennessee
www.deroyal.com/orthoticfitterscourse

Kassel Group Inc.
Various locations
www.kasseledu.com/courses

Medical Careers Institute
www.themedicalcareersinstitute.com

OandPedu
www.oandpedu.com/fitter-classes

Viscent Orthopedic Solutions
Oklahoma City, Oklahoma
www.viscent.com/viscent-university

St. Petersburg College ★
St. Petersburg, Florida
www.spcollege.edu/orthotics-ceu

American Breast Care, LP
Various locations and distance learning
www.americanbreastcare.com

Amoena
Various locations
www.amoena.us/fitter

Anita International Corporation
Various locations
www.anita.com

B*FRIN
Upper Darby, Pennsylvania
www.bfrin.org

Jodee
Hollywood, Florida
www.jodee.com

Nearly Me Technologies, LLC
Various locations
www.nearlyme.org

OandPedu
www.oandpedu.com/fitter-classes

Trulife
Various locations
www.trulife.com

Therapeutic Shoe Fitter Programs

Aetrex Therapeutic Shoe Fitter Course
Teaneck, New Jersey
www.aetrex.com/aetrex-shoe-fitter-course

CFS Allied Health Education
Distance learning
www.cfslearningstore.com/ocart

Dr. Comfort
Various locations
www.drcomfort.com/CFTS.pdf

Foot Solutions
Marietta, Georgia
www.footsolutions.com

National Pedorthic Services, Inc.
Milwaukee, Wisconsin
www.npsfoot.com

OrthoFeet
Various locations
www.orthofeetonline.com

OandPedu
Various locations
www.oandpedu.com/schedule

Visit www.opcareers.org for the most current program information.
Organizations

**Education organizations**
These organizations are important as you pursue your O&P education and training.

- **Commission on Accreditation of Allied Health Education Programs (CAAHEP)**
  www.caahep.org
  Accredits O&P technician and practitioner education programs.

- **National Commission on Orthotic and Prosthetic Education (NCOPE)**
  www.ncope.org
  NCOPE develops, implements, and assures compliance with standards for O&P education through accreditation and approval processes that promote exemplary patient care.

- **The Center for Orthotics and Prosthetics Learning and Outcomes/Evidence-Based Practice (COPL)**
  www.centerforoandp.org
  Dedicated to advancing the development of and learning about outcomes and evidence-based research projects in the O&P field.

- **American Board for Certification in Orthotics, Prosthetics and Pedorthics (ABC)**
  www.abcop.org
  ABC certifies practitioners, pedorthists, technicians, fitters, and assistants.

- **Board for Certification/Accreditation, International (BOC)**
  www.bocusa.org
  BOC certifies practitioners, pedorthists, and fitters.

- **The Orthotic and Prosthetic Education and Research Foundation (OPERF)**
  www.operf.org
  OPERF awards grants and prizes to O&P researchers and students to promote excellence in patient care.

- **The Orthotic and Prosthetic Activities Foundation (OPAF)**
  www.opafonline.org
  Aims to enable individuals served by the O&P community to enjoy the rewards of personal achievement, physical fitness, and social interaction.

**Certifying agencies**
These organizations are important as you begin your career in O&P.

- **The Orthotic and Prosthetic Activities Foundation (OPAF)**
  www.opafonline.org
  Aims to enable individuals served by the O&P community to enjoy the rewards of personal achievement, physical fitness, and social interaction.

**Foundations**
These organizations raise money to support the O&P profession.
Professional organizations
These organizations are important after you become certified and are working as an O&P professional.

The American Orthotic and Prosthetic Association (AOPA)
www.aopanet.org
Represents the business interests of O&P facilities and manufacturers.

The Amputee Coalition (AC)
www.amputee-coalition.org
Empowers people affected by limb loss to achieve their full potential through education, support, and advocacy, and promotes limb-loss prevention.

The Association of Children’s Prosthetic-Orthotic Clinics (ACPOC)
www.acpoc.org
An association of professionals who are involved in clinics that provide O&P care to children with limb loss or orthopedic disabilities.

The American Academy of Orthotists and Prosthetists (The Academy)
www.oandp.org
The primary source for the continuing education you need to maintain your certification. The Academy also represents the interests of individual O&P professionals.

The International Society for Prosthetics and Orthotics (ISPO)
www.ispoint.org
Focuses on O&P practice throughout the world.

American Association of Breast Care Professionals (AABCP)
www.aabcp.org
AABCP is a member-driven national advocacy organization for post-mastectomy professionals.

Pedorthic Footcare Association
www.pedorthics.org
Represents the interests of the credentialed pedorthist and supports the pedorthic profession at large.

National Association for the Advancement of Orthotics and Prosthetics (NAAOP)
www.naao.org
Educates the public and promotes public policy that is in the interest of the O&P patient.
Is this the right career for me?
The various O&P careers are ideal for individuals with a wide range of skills and interests, including:
• Strong interpersonal skills
• Passion for helping others
• Excellent hand skills
• Compassion
• Problem-solving abilities
• Aptitude for math and science
• Creativity
• Dedication

Many people enter the O&P profession because they or a family member use a prosthesis or orthosis, or they work in an O&P facility or related field of rehabilitation, such as physical or occupational therapy. Others come to the profession out of undergraduate majors such as engineering, bioengineering, athletic training, kinesiology, or biology. Still others wish to enter a new profession with a greater personal impact on the world.

If this sounds like you, you owe it to yourself to research the exciting career opportunities in orthotics and prosthetics.

Where would I work?
O&P professionals work in settings including:
• O&P patient care facilities
• Physicians’ offices
• Retail outlets
• Fabrication laboratories
• Hospitals
• Rehabilitation facilities
• Specialty clinics
• Patients’ homes
• Long-term care facilities
• Pharmacies
• Mastectomy boutiques
• Specialty stores
• VA facilities
• Cancer care centers

Some O&P professionals specialize in one area of care such as pediatrics, geriatrics, or sports medicine, while others choose to be generalists.

What if I have a college degree in an unrelated field?
Regardless of your background, there is a place for you in O&P. Job shadowing, interning, or volunteering in an O&P setting is a great place to start.

Technicians, assistants, pedorthists, and fitters generally require a high school diploma, GED, or college-level studies. To be certified, O&P professionals at these levels must complete special training courses, gain experience, and take examinations.

All who seek to enter the profession at the practitioner level must earn a master’s degree from an O&P graduate program.

To see more information about entering the profession at any level, turn to pages 8 and 9.
How can I find out more about O&P or get some real-life experience working in an O&P setting?

Go to www.opcareers.org and click “Talk to an O&P Professional in Your Area.” Click on your state to find a list of professionals willing to answer your questions or provide you with an opportunity to see them at work. If there is no one close to you, email info@opcareers.org for assistance.

What resources are available to help me pay for my O&P education?

With any college program, start by completing a Free Application for Federal Student Aid (FAFSA). This form is used to determine your eligibility for federal, state, and college-sponsored financial aid including grants, loans, and work-study programs. Visit www.fafsa.ed.gov for details. In addition, your school may offer scholarships that have separate application requirements. You can find more information about O&P scholarships at www.opcareers.org. If you are a veteran or a dependent spouse or child of a veteran, the Montgomery GI Bill may pay for your education and some of your other expenses while you study to become an O&P professional. Visit www.benefits.va.gov to learn more. You may also qualify for funding through the Trade Adjustment Assistance (TAA) program if you meet the eligibility criteria. Visit www.doleta.gov/tradeact for details.

Can an occupational therapist (OT) or physical therapist (PT) transition into O&P without having to obtain additional education?

All levels of O&P will require some O&P-specific training. You should check with the school you wish to attend to see which of your credits are transferable and what courses you’ll need to complete.

What should I do to become more familiar with the day-to-day job responsibilities of an O&P professional?

Go to www.opcareers.org to view videos that show O&P professionals on the job. Use the link on the homepage to “Talk to an O&P Professional in Your Area.” Contact someone and see if he or she is willing to allow you to job shadow. Visit the facility to see what a typical day might be like. If you attend or plan to attend a HOPE Careers Consortium member program, speak with the school’s career navigator for more details.

As a graduate from an O&P program, how can I find a job?

Prior to applying to O&P schools, you should intern or volunteer with a facility in your area. Maintain that relationship because that facility may one day become your employer. It is also critical to stay informed about what is going on in the profession. Students can do so by joining O&P professional organizations and attending their meetings. A list of these organizations can be found on page 12. In addition, several O&P publications list job openings and employment opportunities. Your school may offer career placement services. If you attend a HOPE Careers Consortium member program, seek out the guidance of your career navigator. Visit www.hopecareers.org for more information.

Is it possible to work full-time while training to be a fitter, pedorthist, technician, or assistant?

Although it can be quite challenging to attain an O&P education while juggling a full-time career, several O&P schools have implemented programs to make this easier. Distance- and blended-learning programs are tailored to those who hold a job while in school. Students may be required to combine online work and home studies with clinical experience on campus. Please contact individual schools or visit www.opcareers.org for the latest information on online education options.

What happens after I finish school?

Whether you have graduated from a fitter course or pedorthist, technician, assistant, or practitioner program, you will need to pursue certification by ABC, BOC, or both. Don’t forget to keep building your career network by participating in O&P meetings and events. These relationships could make a big difference in your life as you look for mentors, friends, and prospective employers.
For More Information

Take the first steps to a new and rewarding career. Visit www.hopecareers.org or www.opcareers.org.

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1050 W. Bristol road
Flint, MI 48507
Phone: (810)766-4000
www.baker.edu/programs-degrees/orthotic-prosthetic-technology-associate