

For information on becoming a *Computer Software Engineer (Applications)* see **Sources of additional information** within this brochure.

For information on youth employment opportunities, contact a career counselor at your high school or employment counselor or job and information center coordinator at your local NH Employment Security Office.

Berlin (752-5500)

151 Pleasant Street, P.O. Box 159, 03570-0159

Claremont (543-3111)

404 Washington Street, P.O. Box 180, 03743-0180

Concord (228-4100)

10 West Street, P.O. Box 1140, 03302-1140

Conway (447-5924)

518 White Mountain Highway, 03818-4205

Keene (352-1904)

109 Key Road, 03431-3926

Laconia (524-3960)

426 Union Avenue, Suite 3, 03246-2894

Lebanon (448-6340)

85 Mechanic Street, 03766-1506

Littleton (444-2971)

646 Union Street, Suite 100, 03561-5314

Manchester (627-7841)

300 Hanover Street, 03104-4957

Nashua (882-5177)

6 Townsend West, 03063-1217

Portsmouth (436-3702)

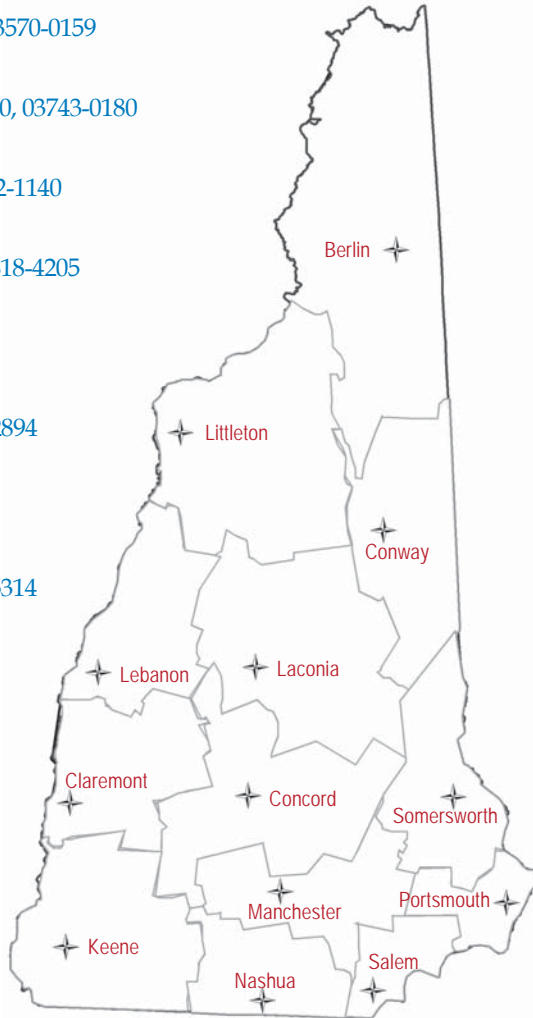
2000 Lafayette Road, 03801-5673

Salem (893-9185)

29 South Broadway, 03079-3026

Somersworth (742-3600)

6 Marsh Brook Drive, 03878-1595



For more information on this series of brochures, or to find out about our other products, contact us at:

New Hampshire Employment Security
Economic and Labor Market Information Bureau
32 South Main Street, Concord, NH 03301-4857
Phone: (603) 228-4124, E-mail: elmi@nhes.nh.gov, Web site: www.nh.gov/nhes/elmi

SOC 15-1031
NHCRN 03/09

So, you want to be a ...



Computer Software Engineer (Applications)

Information Technology

Projected to be among the fastest growing occupations
(New Hampshire Occupational Projections, 2006-2016)

Here are a few things
you should know.



Your gateway to New Hampshire workforce and career information



You'll want to know a few things about this career

Average Hourly Wage

\$41.21

Expected 10 year Growth

48%

Average Annual Openings

283

Training/Education Needed

Bachelor's Degree or Military Training
Continuing education needed to stay abreast of technological advances. See **Computer Engineer Programs** available in NH at <http://nhetwork.nhes.state.nh.us/nhetwork/> (NHetwork)

Basic Skills

Reading, listening, writing, speaking, math, science

Job Skills

Problem-solving, analytical, communication, system analysis.

Also operational analysis, mathematics, science, programming, troubleshooting, active learning, critical thinking, technology design, and decision making

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Computer Software Engineer (Applications)

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Tasks

Source: O*Net Online

1. Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.
2. Modify existing software to correct errors, allow it to adapt to new hardware, or to improve its performance.
3. Analyze user needs and software requirements to determine feasibility of design within time and cost constraints.
4. Consult with customers about software system design and maintenance.
5. Coordinates software system installation and monitor equipment functioning to ensure specifications are met.
6. Design, develop and modify software systems, using scientific analysis and mathematical models to predict and measure outcome and consequence of design
7. Develop and direct software system testing and validation procedures, programming, and documentation.
8. Analyze information to determine, recommend, and plan computer specifications and layouts, and peripheral equipment modifications.
9. Supervise the work of programmers, technologists and technicians and other engineering and scientific personnel.
10. Obtain and evaluate information on factors such as reporting formats required, costs, and security needs to determine hardware configuration.

Interests (Holland Code)

IRC

(Investigative, Realistic, Conventional)

Interest Area

Information Technology

Working Conditions

Generally comfortable well-lit office or computer lab

Average Work Week

40 hours

(could require nights and weekends to meet deadlines or solve unexpected technical problems)

Sources of Additional Information

NH Employment Security (Contact office nearest you or go online to www.nh.gov/nhes)

Association for Computing Machinery
2 Penn Plaza Suite 701
New York, NY 10121
www.acm.org

IEEE Computer Society
1730 Massachusetts Ave NW
Washington, DC 20036
www.computer.org

National Workforce Center for Emerging Technologies
3000 Landerholm Circle SE
Bellevue, WA 98007
www.nwcet.org