### Employment

#### CNC INDUSTRY EMPLOYMENT GUIDE

<table>
<thead>
<tr>
<th>JOB TITLE</th>
<th>DUTIES</th>
<th>SKILLS</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MACHINE OPERATOR</strong></td>
<td>Load and unload work pieces, monitor machining in process, inspect finished parts, Statistical Process Control charting.</td>
<td>Regular check-up of operation, general knowledge of machining</td>
<td>Training at a vocational/technical school, or community college</td>
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<td><strong>MACHINE SET-UP</strong></td>
<td>Set up fixture and cutting tools, coordinate the machine, determine and enter offset and compensation values, correct errors in tooling and programming, test the program.</td>
<td>Solid knowledge of machining and tooling, understanding of part programming, CAM and machine functions</td>
<td>Training at a vocational/technical school, or community college. Experience with extensive CNC knowledge</td>
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<tr>
<td><strong>TOOL MAKER</strong></td>
<td>Assemble and preset standard tooling, make special purpose tooling, repair damaged tooling.</td>
<td>High machining skills, knowledge of CNC, and blueprint reading</td>
<td>Specialized vocational training or an apprenticeship program</td>
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<tr>
<td><strong>PART PROGRAMMER</strong></td>
<td>Prepare part programs, CNC documents, and setup instructions.</td>
<td>Command of geometry/trigonometry, sound knowledge of machining, blueprints, use of CAD/ CAM software, hands on experience</td>
<td>Training at vocational school or college, CNC and computer software</td>
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<tr>
<td><strong>PROCESS PLANNER</strong></td>
<td>Determine what machining processes/sequences to use and with what machines; select cutting tools and work holders/fixtures; prepare operation sheets.</td>
<td>Overall knowledge of machining, and tooling; strong background in manufacturing and CNC</td>
<td>College degree in Manufacturing is preferred</td>
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<tr>
<td><strong>CNC MANAGER or SUPERVISOR</strong></td>
<td>Oversee CNC operations, personnel hiring/training and job assignment, coordination with other departments, evaluation and acquisition of new CNC machine tools and CAD/CAM software.</td>
<td>Management skills, machining knowledge, CNC programming, and manufacturing experience</td>
<td>College or advanced degree</td>
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**Education that WORKS!**

BIR is a private, postsecondary school for technical, business, and language learning. BIR has been educating students since 1993 and enjoys the reputation of a friendly institution serving the needs of Chicagoland students.

Low tuition and no-interest payment plans.

Federal and state financial aid and institutional scholarships are available for qualified students.

BIR is authorized under Federal law to enroll non-immigrant students.

Call BIR and speak with a counselor about your future

773-866-0111 or email: contact@birtraining.edu

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Three Chicago Campuses* and Computerized Manufacturing Lab

Main 3601 W. Devon Ave., Chicago, IL 60659  
828 S. Wabash Ave., Chicago, IL 60605  
6240 W. Belmont Ave., Chicago, IL 60634  
5338 N. Northwest Highway, Chicago, IL 60630  
(Computerized Manufacturing Lab)

*Not all programs available at all campuses
BIR: A Leader in CNC Training

BIR Training Center is the Midwest’s leader in Computerized Manufacturing training since 1993, with three campuses across Chicago, offering instruction in CNC machining, parts programming, CAM precision inspection and measurement, and CAM/CAD technology; including MasterCAM, GeoPath, and MazaCAM platforms.

With flexible scheduling, CAD/CAM software equipped labs, a squeaky-clean machine shop with CNC HAAS turning and Mazak milling centers, Shop Floor CMM from Brown & Sharpe, and instructors who come from the field — the opportunities to learn CNC & CAD/CAM are closer than you think. Employers turn to BIR Training Center when they need their workforce in practical and useful blueprint, quality control, CNC machining, parts programming, and CAD/CAM skills.

BIR is an authorized training provider for GeoPath and MazaCAM software, a CAD/CAM system found in thousands of shops.

BIR has 3 programs in computerized manufacturing:
- (M1) Comprehensive CNC – includes training in a wide variety of CNC machines, CMM, and CAM packages
- (M2) Machine Tool Technology – is a well balanced program with advanced skills including CAD/CAM
- (M3) Machine Tool Operations – has a machine specific focus

Careers in Computerized Manufacturing

The demand for programmers and operators of Computer Numerical Controlled (CNC) machines is strong today and is expected to grow. BIR’s programs prepare students for employment as CNC and CMM Operators, Set-up Personnel, and CAM Specialists. Computerized manufacturing provides attractive career opportunities for both women and men.