

# Steel Reinforced Concrete Jobs / Careers in the FIELD

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Career/Job	Position Description	Education/Training/Skills
Inventory	Inventory personnel works with the purchasing manager and/or the production manager to prepare material orders, rebar, wire mesh, couplers, placing accessories. They also communicate with sales personnel on inventory items as well as material lead times.	<u>Education:</u> high school/GED <u>Training:</u> computer knowledge, business software <u>Skills:</u> communications, math, organizational
Shipping	Shipping personnel coordinates deliveries to jobsites, keeps project managers informed of scheduling, schedules drivers, arranges back hauls or pickup at mill locations. They may also dispatch drivers.	<u>Education:</u> online certification (ASCM, SNHU) <u>Training:</u> logistics credentialing <u>Skills:</u> communication, scheduling, attention to details
Fork Truck Operator	Fork truck operators are typically responsible for general shop organization, material loading and unloading when overhead cranes are not used, assists in moving material as required, and adding last minute releases to trucks that are already loaded.	<u>Education:</u> high school/GED <u>Training:</u> OSHA 10/30 training, PIT certification, pre-flight inspection, on the job training, safety course, annual reviews <u>Skills:</u> eye/hand coordination
Crane Operator	Crane operators coordinate loading and clearing shop machinery including shear machines, bend tables, radius machines, and automated continuous feed machines. They are generally responsible for unloading material into inventory racks and loading all fabricated material onto trucks. ( <i>Crane operation and safety certification training is generally required for this position.</i> )	<u>Education:</u> high school/GED <u>Training:</u> OSHA 10/30 training, PIT certification, rigging, mentoring/on the job training, safety course, annual reviews <u>Skills:</u> eye/hand coordination

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Safety	<p>Safety personnel are responsible for the daily functions and operations as they pertain to safety management. Their main objective is to eliminate safety risk through the effective implementation of Company safety policies.</p> <p>The position works closely with leadership to develop and support a culture of team engagement and ownership in Safety including interacts with all teammates to ensure safety understanding and OSHA compliance. They also develop methods to identify and remove hazards while developing, organizing, and providing safety training. Additionally, safety personnel will compile, review, and report injury/illness statistics, conduct safety visits, audits and observations throughout the plant site, and develop, coordinate, and conduct division safety activities and initiatives.</p> <p>This position must positively and effectively interact with the entire team to promote a culture of safety and achieve an injury-free workplace.</p>	<p><u>Education:</u> associates degree in a related field (business, occupational safety and health, criminal justice, public health, communications, etc.)</p> <p><u>Training:</u> OSHA 10/30 training, on the job training</p> <p><u>Skills:</u> strong communication, organization</p>
Machine Development: Steel Mill	<p>Personnel in this field is responsible for the maintenance and upgrading of steel mill equipment and machinery. Mill machinery is constantly being updated to more efficiently expedite the process of producing all 11 reinforcing steel (rebar) sizes to meet industry needs and fabricator expectations. Environmental and recycling/"green" concerns are also of high importance.</p>	<p><u>Education:</u> high school/GED</p> <p><u>Training:</u> on the job training/mentoring, formal training may exist</p> <p><u>Skills:</u> mechanical</p>

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Machine Development: Fabricator	Personnel in this field will be maintaining and updating reinforcing steel (rebar) fabrication machinery. After decades of being stagnant, rebar fabrication machinery is now considered to be the state of the art for manual and automated shearing and bending of all rebar sizes.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring, equipment manufacturing processes <u>Skills:</u> mechanical
Inspector: Steel Mill	Inspectors for steel mills are responsible for ensuring the steel billets meet ASTM specifications, ensure that heat numbers match the mill certificates sent with orders, and verify the nominal reinforcing steel (rebar) sizes are within specification.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring, formal training by employer may exist <u>Skills:</u> technical, mechanical
Inspector: Fabricator	Inspectors in the fabrication shop may be responsible for quality control of rebar lengths, bends, and quantities, as well as adherence to safety programs within the shop and yard. They may also be required to operate fabrication machinery, crane/lifting equipment, and perform basic machine maintenance.	<u>Education:</u> high school/GED <u>Training:</u> on the job training/mentoring <u>Skills:</u> technical, mechanical
Detailer	Detailers are computer-aided design (CAD) draftsmen who interpret the structural drawings on a project and use specialized 2D/3D/BIM software to produce reinforcing steel (rebar) lists for the shop to fabricate from and placing drawings for the field crews to install on the jobsite.	<u>Education:</u> CAD courses are usually available as continued education (1-2 months) or offered at technical colleges (1-2 years) <u>Training:</u> CAD software such as AutoCAD, Revit, Tekla/Trimble, aSa/Soule <u>Skills:</u> math, attention to detail
Sales	Rebar sales usually include inside and outside sales positions. Inside sales include order desk or over-the-counter sales, receiving orders, and supplying price requests. Outside sales include customer call/visits, developing customer relationships, closing deals, negotiating contracts, and attending industry-related functions as part of customer relations.	<u>Education:</u> high school/GED <u>Training:</u> mentoring and relationship building <u>Skills:</u> communication and negotiation, math, accounting, business principles

933 North Plum Grove Rd. Schaumburg, IL 60173-4758  
p. 847-517-1200 • f. 847-517-1206 • [www.crsi.org](http://www.crsi.org)



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Security	Security positions can be assigned in a few locations: steel mill security, fabrication facility or at the jobsite. Security personnel are responsible for safe and secure facilities, deterring theft and vandalism. Cyber security positions can include data security, corporate websites, servers, and support of local and remote users. They typically provide updates, security patches, and monitor network activity for cyber threats/vandalism.	<p><u>Education:</u> college/trade school, private security education</p> <p><u>Training:</u> knowledge of local laws, computer science, self-defense</p> <p><u>Skills:</u> attention to detail, assertive, software development/applications</p>
Metallurgist	The Metallurgist role supports all areas of the steel mill to improve product quality and performance. This often includes creating and implementing quality control procedures, aiding in development of processes to produce required grades of steel, writing technical reports for internal and external customers, and conducting mechanical and metallographic testing for analysis and inspections. This position requires a Bachelor's degree in metallurgy, metallurgical engineering, material science, or chemical engineering.	<p><u>Education:</u> degree in Metallurgical Engineering, Materials Science, or Chemical Engineering</p> <p><u>Training:</u> steel or industrial experience typically required</p> <p><u>Skills:</u> chemistry, product testing</p>
Environmental Manager	In this role, Environmental Managers develop and assist with the implementation of regulatory programs and ensure that operations are in compliance with applicable environmental regulations. The position required keeping abreast of new and pending regulations that may impact operations, and assist operations as necessary to prepare for new requirements. Additional responsibilities often include obtaining permits and provide environmental input and/or planning for applicable projects.	<p><u>Education:</u> degree in science, engineering, or environmental laws and regulations</p> <p><u>Training:</u> prior experience in an environmental management role or similar; local State EPA agency interaction; management of hazardous wastes and air pollutants</p> <p><u>Skills:</u> organization, communication</p>

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Environmental Specialist	In this role, Environmental Specialist supports a steelmaking facility with its environmental responsibilities including developing and implementing environmental plans and response protocols, establishing waste disposal solutions, and conducting inspections. They also perform audits to ensure compliance with all regulations and maintains productive relationships with plant and regulatory agency personnel.	<u>Education:</u> degree in environmental studies and/or sciences, geology, biology, engineering <u>Training:</u> prior experience in environmental compliance areas including air/water quality management issues, solid waste/hazardous materials management, radiation detection systems for a steel mill or heavy industrial environment pollutants <u>Skills:</u> organization, communication
Ironworker/Rebar Placer	An ironworker places and ties reinforcing steel (rebar) and related products in their proper location at the jobsite according to shop drawings and designs. This position requires working in various weather-related situations.	<u>Education:</u> high school/GED <u>Training:</u> join and be trained as an Ironworker through the field and class, typically through a union local <u>Skills:</u> physical labor, attention to detail
Union Business Agent	A Union Agent manages the Ironworker Local (union) to accommodate for business, work load, apprentice training, and overall well being of the union local. This position requires union membership.	<u>Education:</u> high school/GED <u>Training:</u> former Ironworker who has shown a level of business acumen <u>Skills:</u> understand the Ironworker placing industry with a union mindset
Truck Driver/Operator	A commercial Truck Driver is responsible for securing loads of material to deliver to the job site, fabricator yard, steel mill, or other locations with on time deliveries. Candidates for this position work well in fast paced environment.	<u>Education:</u> high school/GED, CDL licensed <u>Training:</u> operator with insurance to operate a semi-truck over the road <u>Skills:</u> dependable, task-oriented