



Welding Engineering at Caterpillar

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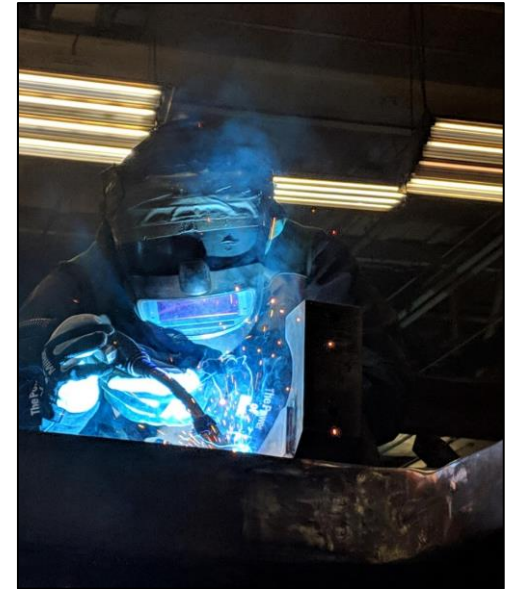
**Integrated Components and Solutions
Manufacturing Technology & Solutions
Engineering Specialist-Dev/Res**

■ **Education and Certifications**

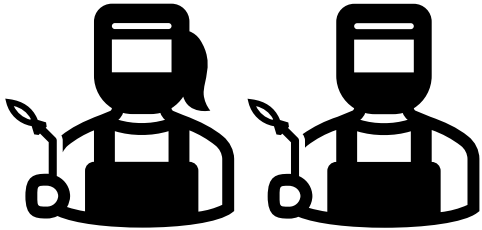
- Ferris State Weld Eng Technology degree
- American Welding Society CWI and CRWT

■ **Experience**

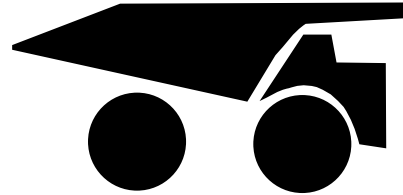
- Welding Engineering Intern – Caterpillar Inc.
- Leadership Technical Development Program – Caterpillar Inc.
 - Automation Engineer
 - Large Structures Design Engineer
 - Supplier Development Engineer
- Facility Welding Engineer - Caterpillar Inc
 - Forestry Products LaGrange, GA
- Adv Mfg Engineer - Harley Davidson Motor Company
- Senior Research Engineer – Caterpillar Inc.
 - Manufacturing Solutions & Technology division



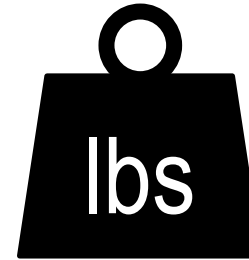
Welding at Caterpillar Facts



5895+ Caterpillar welders worldwide



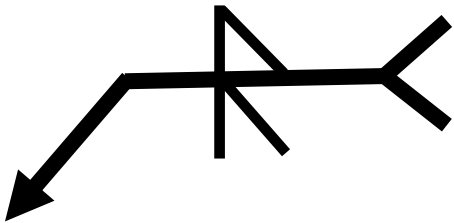
A Cat® 793F mining truck frame takes **~5** miles of weld wire to build



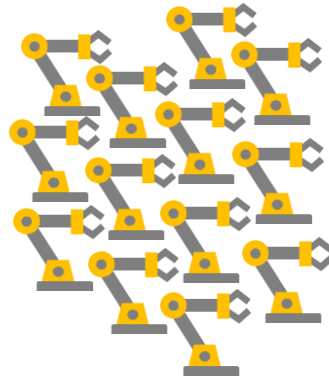
22.71 million pounds Welding electrode consumed



~700,000 miles of annual welding electrode would wrap around the earth 28 times



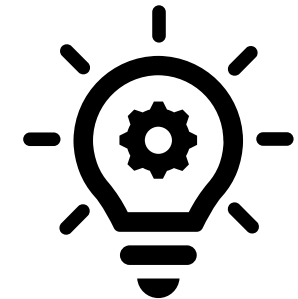
1,000+ welds on average on a Caterpillar machine



500+ welding robots worldwide at Caterpillar

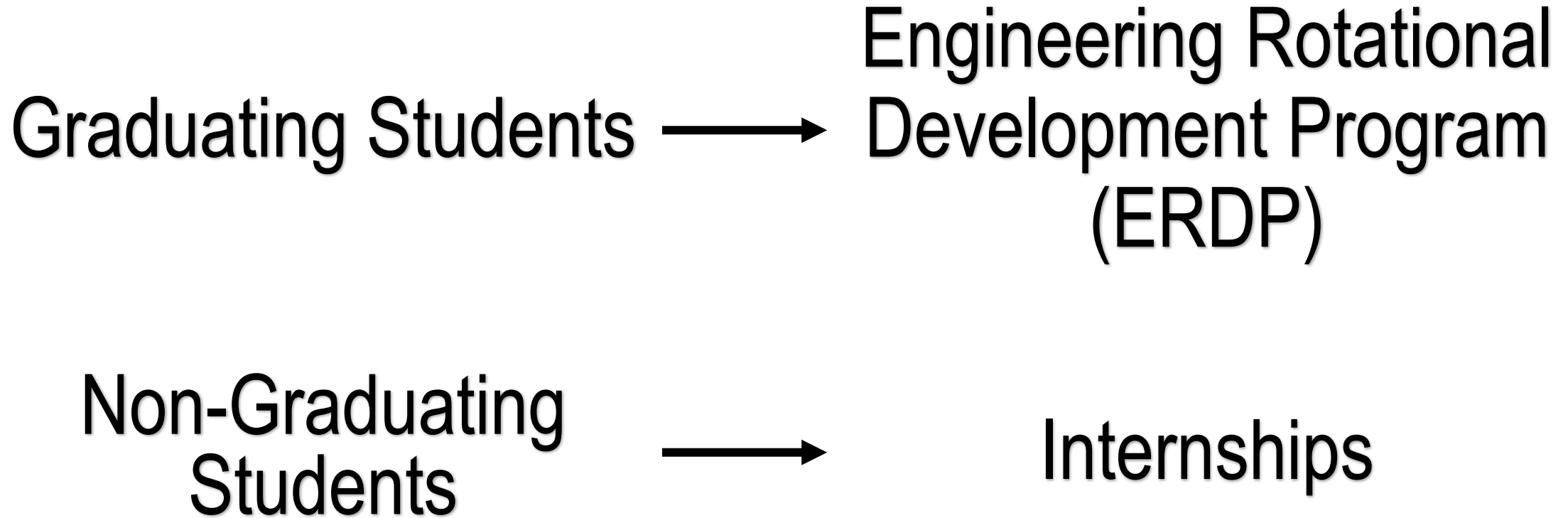


60+ manufacturing facilities



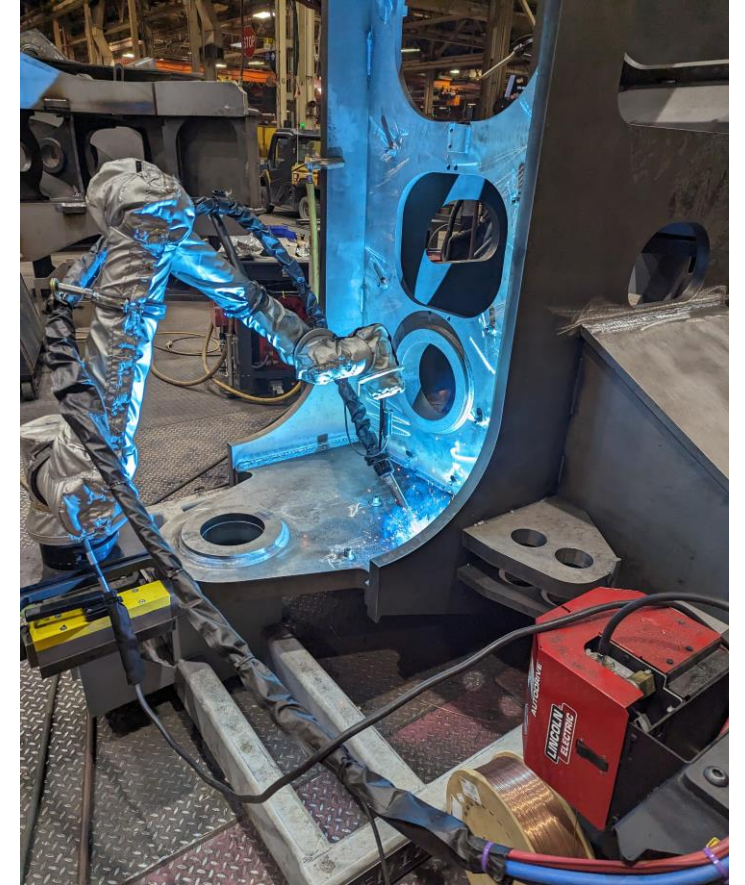
In **1962** Caterpillar engineers invent inertia friction welding

Opportunities



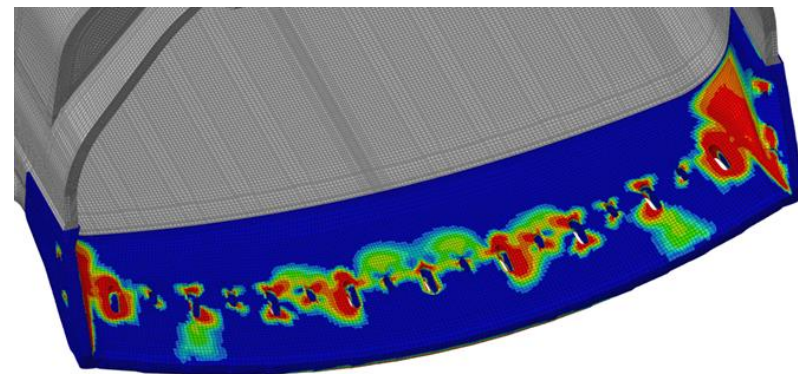
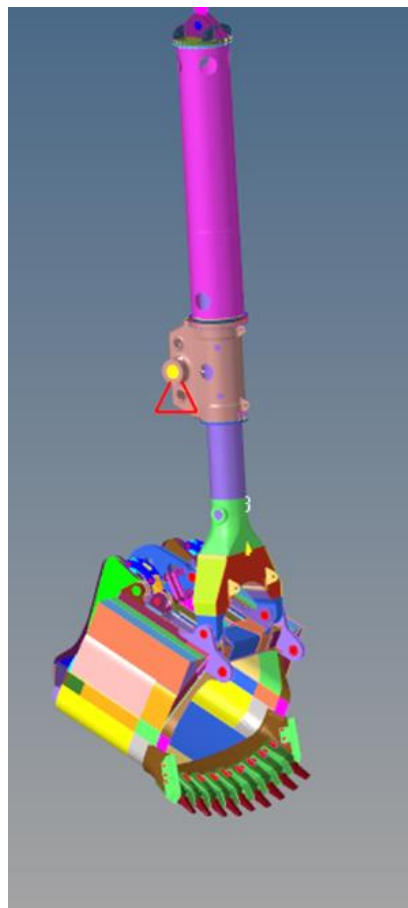
Welding Engineering Requirements

- Minimum 3.0 GPA on a 4.0 Scale (no rounding)
- Bachelor's Degree in (preferred, but not limited to):
 - Welding Engineering, Welding Engineering Technology, Manufacturing Engineering Technology, Mechanical Engineering, Industrial Engineering, Manufacturing Engineering, AG Engineering & Material Science
- Hands-on experience or knowledge of welding processes
- Willingness to relocate
- Communication
- Problem solving



Potential Roles

- Facility Weld Engineer
- Research & Development
- Automation Engineer
- Supply Chain
- Field Support Engineer
- Design Engineer
- Remanufacturing Engineer
- Operations leadership
- Metallurgist



Welding Engineering Intern and ERD Benefits

- Build & develop technical, leadership, & business skills
- Work on a variety of unique processes in varying environments
- Build & develop relationships with other interns & employees within Caterpillar
- Caterpillar learning opportunities
- Touring state-of-the-art facilities
- Product demonstrations
- Career discussion with leaders & experts



Thank you!