

Research

The Center's research initiative utilizes a scientific, technology-driven, customer-centric approach to resolve complex ergonomic challenges. State-of-the-art systems, programs, and methodologies are employed to conduct research in both laboratory and workplace environments. The array of research services can be grouped into three categories: product evaluations, process evaluations, and sponsored research.



The applied researchers are trained ergonomists, engineers, and mathematicians motivated to uncover the real questions a client is interested in answering and providing technically accurate solutions. At the Center, researchers understand that a technically correct answer to the wrong question is a waste of the client's time and resources.

Research tools can be used to describe different aspects of a task being performed: the physical requirements to accomplish a task (i.e. force, torque, and duration) and the effort required by a person to accomplish a task (i.e. muscle activity, O₂ consumption, posture, and pressure distribution). Although the previous two descriptions do not sound very different, they answer different questions and require different equipment and methods of data collection and analysis. In many situations a combination of these

approaches is required to address real world situations.

Membership

Hundreds of corporations, facilities, government agencies, and individuals have benefited from the rich array of Center services, programs, and products. Center membership allows companies to keep up-to-date on the latest ergonomics information, gain access to state-of-the-art research, and plug into innovative tools, techniques, and tips to enhance and streamline their ergonomics process. Membership also allows the Center to fully partner with companies to help them achieve their ergonomics goals.

Any company (single facility or corporation), association, organization, or individual may join the Center as a member. As a member of the Center your company will be recognized as a leader in providing ergonomics training and benefits to your employees. Some of your membership dollars are used exclusively to further research initiatives in ergonomics. The Center offers a full compliment of membership levels. Let us help you select the membership that best suits your needs:

- Corporate
- Site Level Training
- Site Level Consulting
- Professional
- NC Government Partnership

Membership will save your company money with discounts on consulting services and training. It also gives you access to ErgoDATA, our online suite of assessment tools designed to assist your company in providing the best analysis of your operations. Our website also offers you access to the Center's Resources and Tools web page, which contains valuable information, handouts, and ergonomics tools to assist you in optimizing your ergonomics program.

Memberships are renewed on an annual basis. Depending on when the membership commences, a company's renewal date will be either January 1st, April 1st, July 1st or October 1st each year.



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The Ergonomics Center

*Providing companies with the expertise they need
to decrease injuries and save time and money*

• Consulting

• Training

• Research

NC STATE UNIVERSITY



www.ErgoCenter.NCSU.edu

The Ergonomics Center of North Carolina (ECNC) is housed in the College of Engineering at North Carolina State University. Founded in 1994, the Center was created to make workplaces safer, more productive, and more competitive by providing practical, cost-effective ways to reduce or eliminate musculoskeletal disorders (MSDs).

The Ergonomics Center's extension activities include occupational ergonomics consulting, training, and applied research for corporations to support and enhance their ergonomics efforts. Each service is tailored to meet an organization's specific ergonomic needs and company goals.

Our Approach

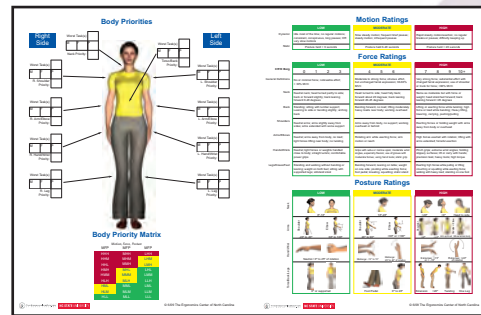
When you look at an ergonomics program in its entirety, you can see the many levels and approaches that can be used to achieve success. The simple question is where do you start? Responsibilities need to be established, actions need to be taken, and problems need to be solved.

At the Ergonomics Center, we use a simple, straightforward approach to providing ergonomics services—we give you what you need when you need it. Our ergonomists pay attention to your concerns, issues, needs, and resources and work with you to determine the best approach to managing ergonomics in your company.



Here is a sample of the many services that the Center can provide to enhance your ergonomics process:

- Ergonomics program development
- Ergonomics risk assessment
- Ergonomics Cultural Maturity Model (ECMM)
- ErgoTASK (Ergonomics Kaizen event)
- Physical demands descriptions
- Ergonomics job analysis with design recommendations
- Ergonomic guideline development
- On site training and team development
- Worker compensation claims support



Our Clients

The Center has provided training and consulting services to a variety of businesses and industries throughout the United States and Latin America. Our clients include:

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|--------------------------|-------------------------|---------------------------|----------------------|
| • Abbott Laboratories | • Dell Computers | • Graphic Packaging | • NIOSH |
| • ATI-Allvac | • Duke Energy | • Hanesbrands | • Parker Hannifin |
| • BayerCropScience | • Eastman Kodak | • Honeywell | • Perdue Farms |
| • Bechtel | • Eli Lilly and Company | • Ingersoll-Rand | • Progress Energy |
| • Blue Ridge Paper | • Emerson | • John Deere | • Purolator Filters |
| • Boeing | • Energizer | • Kelly Springfield Tires | • Robert Bosch Corp. |
| • Cargill Meat Solutions | • Georgia Pacific | • Kimberly-Clark | • Starbucks Coffee |
| • Caterpillar, Inc. | • General Electric | • Lockheed Martin | • Syngenta |
| • ConAgra Foods | • Gildan | • L'Oreal USA | • Tyco Electronics |
| • Cree | • GlaxoSmithKline | • Moen, Inc. | • Weyerhaeuser |

The workshops at the Ergonomics Center provide ergonomics training utilizing a solutions-based approach to ergonomics challenges. Through a combination of lecture, directed practical activities, and interaction with products in the Center's Technology Showcase rooms, we offer a unique, hands-on training environment. Classes are designed to address ergonomics issues in a variety of environments and are prepared for individuals with varying levels of knowledge and experience. Additional special offerings supplement the core workshops by providing a concentrated look at more complex issues. Continuing education credits (CEUs) are available for all our classes.

Industrial Ergonomics Process Workshop (Raleigh)

The Industrial Ergonomics Process Workshop guides participants through each element of the ergonomics process from basic ergonomics principles through control development and workstation design guidelines.

Office Ergonomics Accreditation Program (Raleigh)

The Office Ergonomics Accreditation Program (OEAP) is designed to assist office-oriented businesses in developing high quality, cost-effective ergonomics expertise in-house. Students are taught the skills necessary to evaluate existing workstations and make prioritized recommendations for corrective action.

Advanced Topics in Office Ergonomics (Raleigh)

The Advanced Topics in Office Ergonomics workshop guides participants through more advanced topics in office ergonomics. Participants learn the steps necessary to develop a written ergonomics plan for their business. Facility ergonomics is discussed, as well as lean office principles, environmental issues, and responding to the aging workforce.

Practical Solutions in Office Ergonomics (Raleigh)

The Practical Solutions in Office Ergonomics workshop is designed to provide participants with a strong foundation in how to assess risk, establish priorities, identify control measures, and use design techniques for personal accommodation and office environment improvement.

Ergonomics Team Training (Onsite)

The Ergonomics Team Training Workshop introduces your team to basic ergonomic principles and addresses topics such as: musculoskeletal disorders (MSDs), identifying and prioritizing ergonomic stressors, determining root causes, analysis techniques, developing appropriate control measures, cost justification, and design criteria.

Ergonomics Training for Engineers (Onsite)

Ergonomics Training for Engineers will help ensure the application of ergonomic principles to equipment specification/selection and equipment/process design. This workshop focuses on the application of specific ergonomics techniques to guide the participant through the evaluation of difficult jobs. Participants will learn how to select and utilize key analysis tools employed to define workplace risk, evaluate hand/wrist intensive tasks, and quantify manual materials handling activities.

Ergonomics Awareness Training (Onsite)

Ergonomics Awareness Training (both office and/or industrial) provides a basic understanding of ergonomics, MSDs, the client's ergonomics process and the employee's role for successful process implementation. The Office Awareness Training is also available online or on-demand.

Ergonomics Training for Managers and Supervisors (Onsite)

