

# North Carolina

## Energy Efficiency Jobs in America

83,490  
Total Jobs

### What are EE jobs?

*Jobs that reduce energy use by improving efficiency in appliances, buildings, data systems, financing, new technologies, and more.*

### What do EE workers do?

- **Manufacture and install** high-efficiency systems, controls, windows, insulation, and ENERGY STAR-certified appliances and products in existing and new homes, as well as commercial, and industrial buildings.
- **Design and construct** high-performance buildings such as those earning nationally recognized sustainability and environmental performance ratings.
- **Upgrade and repair** heating, air conditioning, and ventilation (HVAC) and water heating equipment.
- **Educate** property owners and managers on building improvements to unlock savings for businesses, homeowners, schools, states, municipalities, military bases, and more.
- **Analyze building data** using software to maximize energy savings through targeted performance improvements and behavioral changes.
- **Review and approve loans** to finance energy savings performance contracts to improve the comfort, health, and operational costs of buildings.

### How does EE compare to other energy sectors in North Carolina?

*Energy efficiency is the largest energy sector in North Carolina.*



TDS = Transmission, Distribution, & Storage

EPG = Electric Power Generation

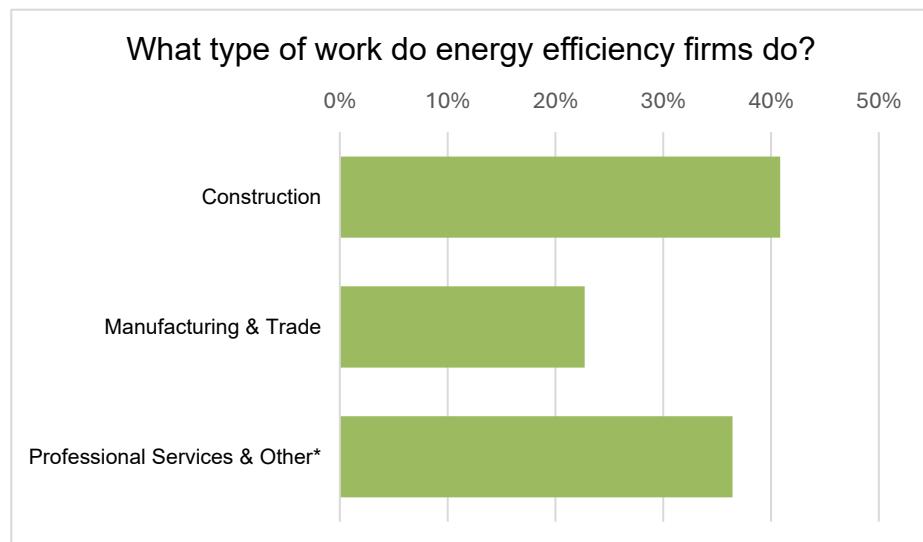
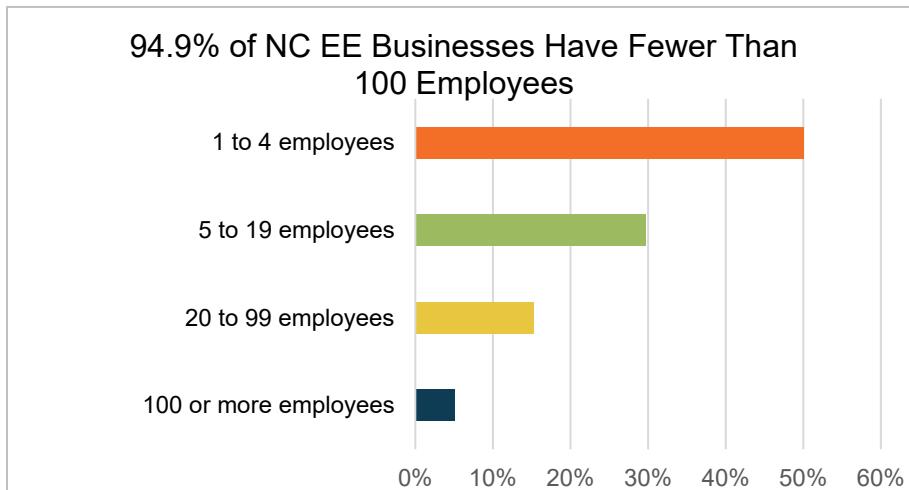
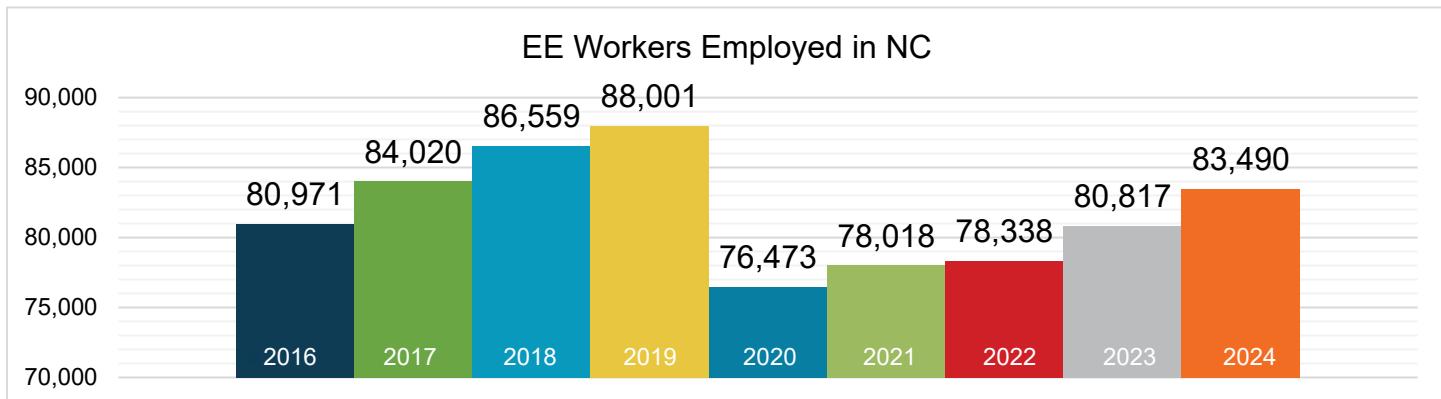
\*\*Nuclear - EPG & Fuels = 1,821

\*Includes other energy subsectors such as corn ethanol, woody biomass, large hydropower, and others.

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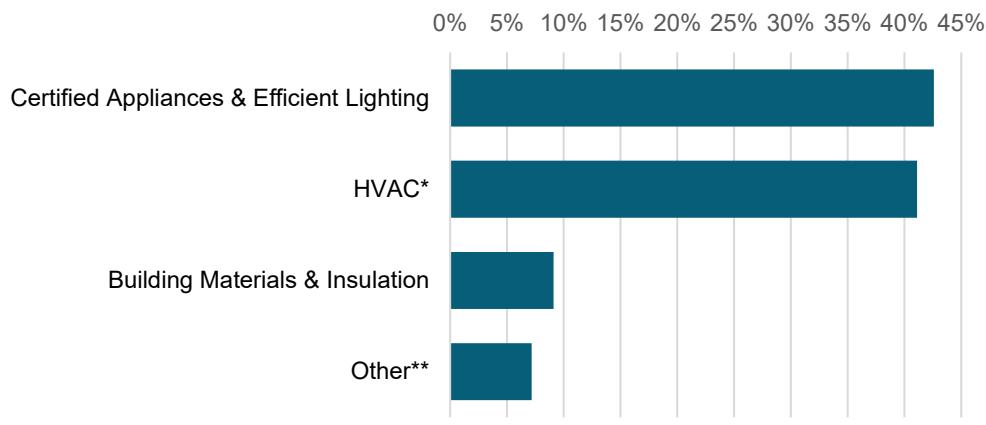


## What does EE look like in North Carolina?



\*Professional services include finance, accounting, architecture, engineering, research and development, and more. The "other" category includes roles in maintenance, business operations, and nonprofit organizations.

## What energy efficiency sectors employ the most workers?



Certified Appliances = ENERGY STAR-certified appliances

\*Heating, ventilation, air conditioning of higher than standard efficiency/renewable heating and cooling

\*\*Other includes energy audits, building certifications, and software services

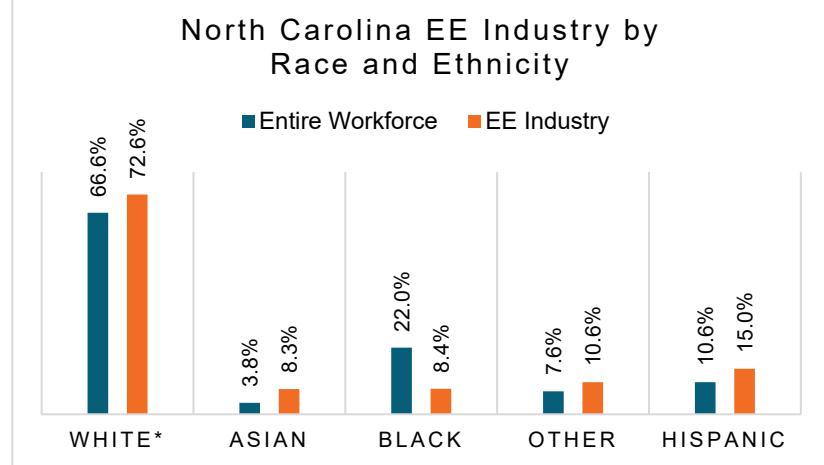
**10%**  
of North Carolina  
EE workers are  
veterans



## How representative is the EE workforce in North Carolina?

*Demographic data is critical to measure progress towards a more representative EE workforce. Tracking this data helps show how well North Carolina's EE workforce reflects the communities it serves and where gaps remain.*

Expanded training programs in North Carolina can help ensure energy efficiency careers are accessible to all.



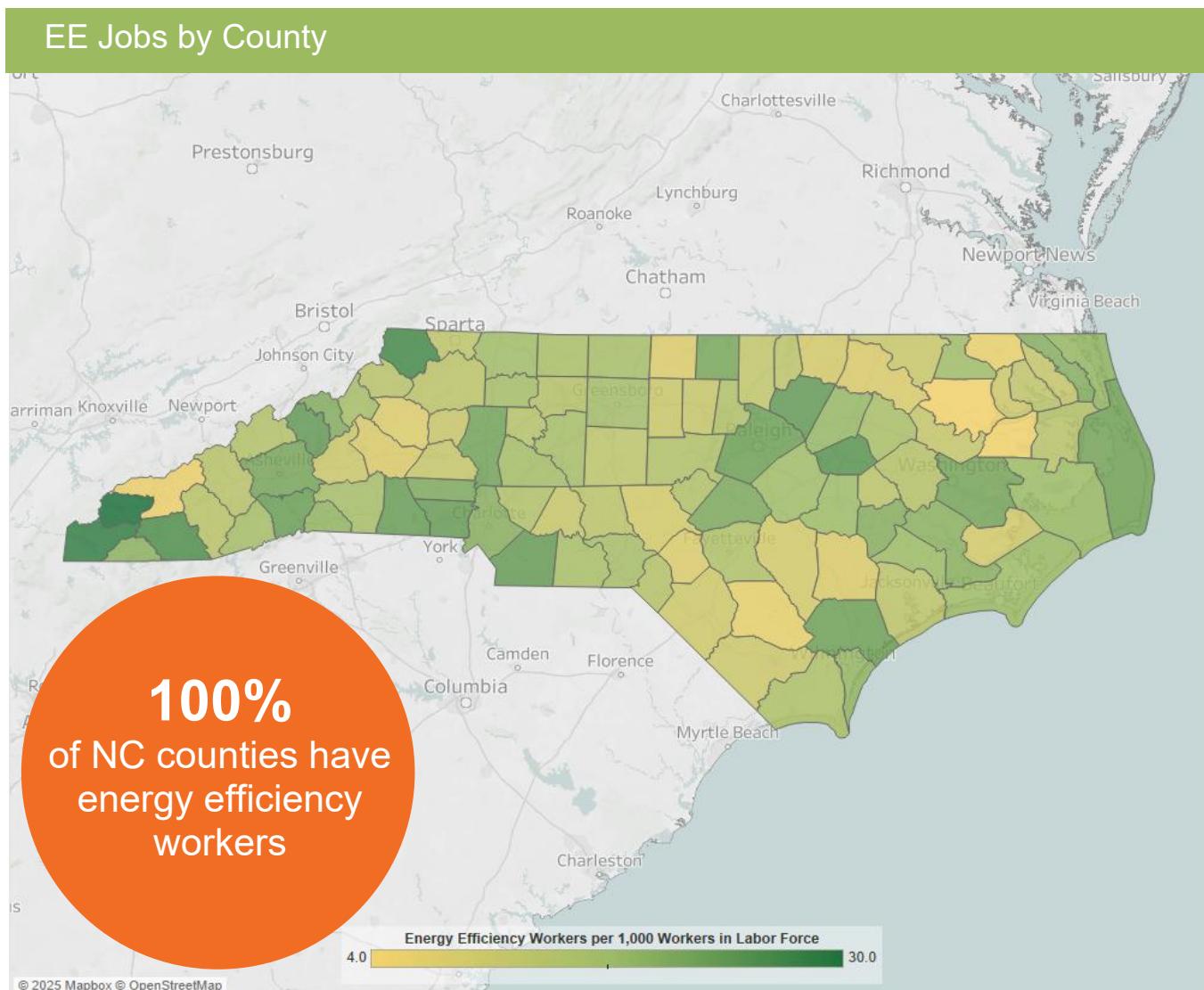
\*Includes non-Hispanic and Hispanic whites.

## Gender in the North Carolina EE Workforce



Note: The U.S. Bureau of Labor Statistics (BLS) only includes two genders in their survey. Nonbinary gender data is missing from this document due to this limitation.

# Energy efficiency jobs are everywhere



The energy efficiency job concentration displayed above is capped at thirty jobs per thousand in order to maintain observable differences between the majority of counties within the state. This is done to eliminate the influence outliers have on overall color gradient. For a full list of energy efficiency jobs by county, please visit the Department of Energy's (DOE) United States Energy and Employment Report (USEER) County-Level data site at <https://www.energy.gov/media/348937>.

Congressional				Metropolitan Areas			
District	Jobs	District	Jobs	Area	Jobs	Area	Jobs
1	4,385	9	3,288	Asheville	4,095	Hickory-Lenoir-Morganton	1,520
2	10,663	10	5,515	Burlington	749	Jacksonville	704
3	4,288	11	5,861	Charlotte-Concord-Gastonia	23,408	Raleigh	15,850
4	7,902	12	10,280	Durham-Chapel Hill	4,781	Rocky Mount	958
5	4,944	13	3,872	Fayetteville	1,853	Virginia Beach-Norfolk-Newport News	128
6	5,127	14	7254	Goldsboro	731	Wilmington	2,711
7	4,770			Greensboro-High Point	5,773	Winston-Salem	3,865
8	5,342			Greenville	1,124	Rural	15,242



## State Senate

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	1,017	14	2,578	27	1,855	40	2,163
2	788	15	2,389	28	2,511	41	3,967
3	1,764	16	3,188	29	996	42	3,702
4	1,698	17	2,332	30	968	43	1,818
5	1,408	18	1,508	31	1,027	44	1,538
6	727	19	1,289	32	1,824	45	1,229
7	2,223	20	1,567	33	1,144	46	777
8	1,033	21	926	34	1,362	47	1,027
9	784	22	2,355	35	1,640	48	1,423
10	1,103	23	1,040	36	1,017	49	2,530
11	1,256	24	669	37	2,486	50	1,305
12	1,020	25	952	38	2,685		
13	3,186	26	1,021	39	2,673		

## State House of Representatives

District	Jobs	District	Jobs	District	Jobs	District	Jobs
1	338	31	713	61	485	91	251
2	973	32	321	62	942	92	1,065
3	631	33	1,476	63	450	93	593
4	337	34	724	64	323	94	299
5	375	35	1,052	65	416	95	885
6	400	36	1,209	66	1,224	96	626
7	440	37	1,460	67	401	97	597
8	458	38	743	68	484	98	1,581
9	703	39	905	69	951	99	1,390
10	585	40	1,705	70	322	100	1,076
11	1,052	41	703	71	744	101	611
12	691	42	444	72	819	102	1,416
13	607	43	390	73	381	103	1,243
14	209	44	311	74	379	104	1,031
15	434	45	674	75	659	105	1,424
16	418	46	238	76	668	106	1,115
17	400	47	338	77	430	107	1,628
18	1,125	48	245	78	379	108	501
19	714	49	1,015	79	717	109	898
20	865	50	256	80	286	110	853
21	1,666	51	525	81	486	111	586
22	253	52	367	82	737	112	844
23	340	53	198	83	369	113	458
24	890	54	325	84	831	114	527
25	735	55	456	85	494	115	868
26	528	56	662	86	243	116	1,507
27	208	57	960	87	201	117	886
28	575	58	1,066	88	1,432	118	301
29	1,205	59	632	89	508	119	411
30	864	60	887	90	547	120	693





The Building Performance Association (BPA) is a nonprofit industry association that serves as the hub for businesses, nonprofits, and government agencies working to make America's homes more energy-efficient, comfortable, healthy, and safe. Visit [www.building-performance.org](http://www.building-performance.org).



BW Research Partnership is a full-service, economic and workforce research consulting firm with offices in Carlsbad, California and Wrentham, Massachusetts. It is the nation's leading provider of accurate, comprehensive energy and clean energy research studies. Visit [www.bwresearch.com](http://www.bwresearch.com).

**Data Source:** Unless otherwise stated, all data are from the August 2025 U.S. Energy and Employment Report, by the U.S. Department of Energy (see Appendix B for methodology details). This methodology—adopted by the U.S. Dept. of Energy for its 2017 U.S. Energy and Employment Report, approved by the Office of Management and Budget and grounded on data collected by the Bureau of Labor Statistics—provides the broadly accepted best accounting of all U.S. energy workers.

For questions on BPA analyses, please email: [communications@building-performance.org](mailto:communications@building-performance.org).

