



**GREEN
JOBS
NOW:
LOUISIANA**

Green Jobs Now:

LOUISIANA

Table of Contents

- 3 FOREWORD
- 5 INTRODUCTION
- 6 AT A GLANCE
- 7 REPORT FINDINGS
- 12 SUMMARY OF FINDINGS
- 13 RECOMMENDATIONS
- 14 ABOUT

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Green Jobs Now:

LOUISIANA

Foreword

Since our launch in August of 2016, WorkingNation has had a very clear mission: tell stories about solutions to today's workforce issues and point people in the direction of opportunities that will prepare them for the skills they need to get good, life-sustaining jobs or careers.

For the last two years, we have collectively held our breath while waiting for things to “return to normal.” But as we embark on the year 2022, we face a new challenge — one that is less about getting things back to the way they were and more about embracing a future that is entirely different from what we once imagined. Social isolation, an unpredictable job market, and financial uncertainty have taken a mental and physical toll on the American worker, who has grown weary and exhausted. At present, it feels like our nation's recovery hinges on instilling hope for a brighter tomorrow.

So, where do we begin? Our answer is with jobs.

We see job opportunities across the entire economy, but we believe one area that deserves a more in-depth look is the green economy. All too often, conversations about the environment focus solely on the threats to our planet. But protecting and repairing the environment is not just good news for our world, it is also good news for the American worker. With the passage of the Infrastructure Investment and Jobs Act at the end of 2021, we know that most of the new infrastructure is being designed or built with climate resilience in mind — and with that comes the potential for massive job creation.

The world of work is changing rapidly and so are the skills needed to successfully compete in today's workforce. The public and private sectors are already hard at work on initiatives and programs to ensure that all Americans have access to opportunities that will ready them for the jobs of today and tomorrow. WorkingNation continues the work we started more than five years ago to tell stories that will point the American worker toward life-sustaining, purposeful jobs. With that in mind, we invite you to read, watch, and listen to our newest storytelling series, Green Jobs Now, in which we'll showcase the enormous potential in the green economy, moving it to the foreground in the vital discussion about the future of work.

To help us better inform and shape our journalism, podcasts, and video content, we've partnered with two respected and established leaders in research, data collection, and data analysis — Emsi Burning Glass, a leading authority on job skills, workforce talent, and labor market dynamics, and MISI, an economic and energy research firm specializing in the environment.

From MISI, we learn that 9% of the American workforce is in a green job already and that number is expected to grow enormously over the next decade. From Emsi Burning Glass, we learn that job postings in the green economy were up 17% in 2021 over the previous year.

So, what do you need to know to be a part of this growth?

Using the original research and analysis, and our skills as journalists and storytellers, Green Jobs Now will answer the following questions:

What is a green job? Is the current definition too narrow?

Where are the green jobs of today and who is hiring?

What skills are employers looking for to fill these jobs?

How can you acquire the skills that you need to make you employable in this space for years to come?

It is vitally important to reconsider and expand upon the traditional definition of a green job in order for workers, employers, workforce groups, advocacy teams, and policymakers to see these jobs as an economic driver, regionally and nationally, in a way they may not have considered before.

Federal authorization for new infrastructure will undoubtedly create jobs in construction, water purification, and solar or electric energy associated with these upgrades. But what about the architects and engineers doing these designs? What about workers installing climate-friendly insulation or water-efficient plumbing in office buildings and homes, which directly and positively impact the environment?

Research tells us those are green jobs too.

Tech companies, law firms, hospitals and retail are already hiring for green positions, but the language describing those jobs is too narrow to connect them to the environment. So these opportunities are not counted as green — *even though they should be.*

We believe this redefinition and reconsideration is necessary to change how state and local leaders and labor groups talk about the jobs in their region in a way that is inspirational and shows growth.

Over the next year on [WorkingNation.org](https://www.workingnation.org), we will use our original research to tell stories on a national, state, and local level. We will be talking to employers whose businesses have already embraced the green economy, and we will introduce the training programs that will prepare jobseekers with the valued and in-demand skills they need to thrive in this space.

Thanks to the Walton Family Foundation and other funders for making this important and timely discussion of green jobs possible.

We hope that our stories will inspire Americans to appreciate that not only can they attain a great job in any number of sectors, but their work can have a tangible impact on the environment, even if they are not employed in occupations traditionally considered green.

Joan Lynch

WorkingNation Chief Content and Programming Officer

Introduction

The fabric of the economy is becoming greener by the day. There are emerging green technologies, larger investments in green infrastructure, and renewed efforts to mitigate climate change in the United States and beyond that are building momentum for a global green revolution. However, with new support for green initiatives and technologies comes a new need for workers with green skills. As the potential for positive environmental impact spreads across a wide range of industries, this will give rise to a new class of green workers who can design, install, and maintain a green infrastructure. These workers will be critical to enabling the shift to a greener economy.

To date, however, there is limited and inconsistent insight into the jobs associated with the green economy. Many conversations on green jobs focus on the obvious green roles, such as solar installers or hydroelectric engineers. However, this does not capture the far larger number of workers in jobs not traditionally considered green but nonetheless are critical to building a greener economy — such as mechanical engineers designing greener technologies, or technicians who must learn to maintain these technologies.

These jobs are already in-demand across the country, and Louisiana is no different. But we can not prepare workers for these jobs if we can not understand them. Therefore, to understand Green Jobs Now in Louisiana we first need a more comprehensive definition of green jobs. To build this definition, we developed a framework that recognizes different levels of the green jobs, based upon the role they play in the green economy and the intensity of green skills within each role. This framework includes four different levels of green jobs, which are detailed in Figure 1.



Key Findings



Louisiana's Green Workforce is Large and Growing:

We estimate that there are over 11,073 workers in Louisiana's green economy, and there were 2,080 green job openings in the state in 2021. By comparison, this is more than twice the number of computer and math workers demanded in Louisiana in 2021. We project that in the next five years, employment demand for green jobs will increase by 2.85%.



Demand for Green Enabled Jobs is Strong and Green Jobs Are Spreading Across Industries:

Demand for green enabled jobs, that is, workers in roles that are not considered green by default, but who are required to have at least one green skill or competency, is significant, with 1,722 openings in 2021. Workers with green skills are also spreading across a wide range of industries — such as Electric Power Generation, Transmission and Distribution, Engineering Services, and Management, Scientific, and Technical Consulting Services — illustrating the increasing need for green skills across Louisiana's economy.



Green Jobs Exist in Many Fields and Workers Across Occupations and Education Levels Can Benefit by Learning Green Skills:

The top occupations across the green jobs ecosystem range from Environmental Scientists and Engineers to Production Workers found in manufacturing, and a variety of different Technicians. In many of these roles, green skills offer significant annual salary boosts of \$3,000 or more, on average. This demonstrates the value of learning green skills for workers in many different fields.



Skills Related to Energy Efficiency, Renewable Energy, and Other Green Specializations are In Demand and Offer Significant Salary Bumps:

The most demanded skills related to the green economy in Louisiana are Energy Conservation, Energy Efficiency, and Renewable Energy. Many green skills offer strong salary boosts across roles, such as Carbon Management and Energy Audits, both of which increase salaries by over \$10,000 on average. This suggests that investing in training workers in these skills will have strong returns, but Louisiana must ensure the green training infrastructure exists to support reskilling workers in these capabilities.



There are an Estimated 462,580 Workers in Louisiana Who Could be Reskilled into Green Jobs:

These workers come from a variety of different occupations and educational backgrounds, and reskilling them could build the pipeline of green workers faster than relying on new postsecondary graduates alone. However, doing so will require a mix of training program formats that support the reskilling and redeployment of these workers.

Green Jobs in Louisiana at a Glance

Figure 2: Green Jobs by the Numbers in Louisiana

Note: Full Year 2021



11,073

Workers in Green Jobs



\$58,790

Average Salary of Green Jobs



462,580

Potential Green Workers



2.85%

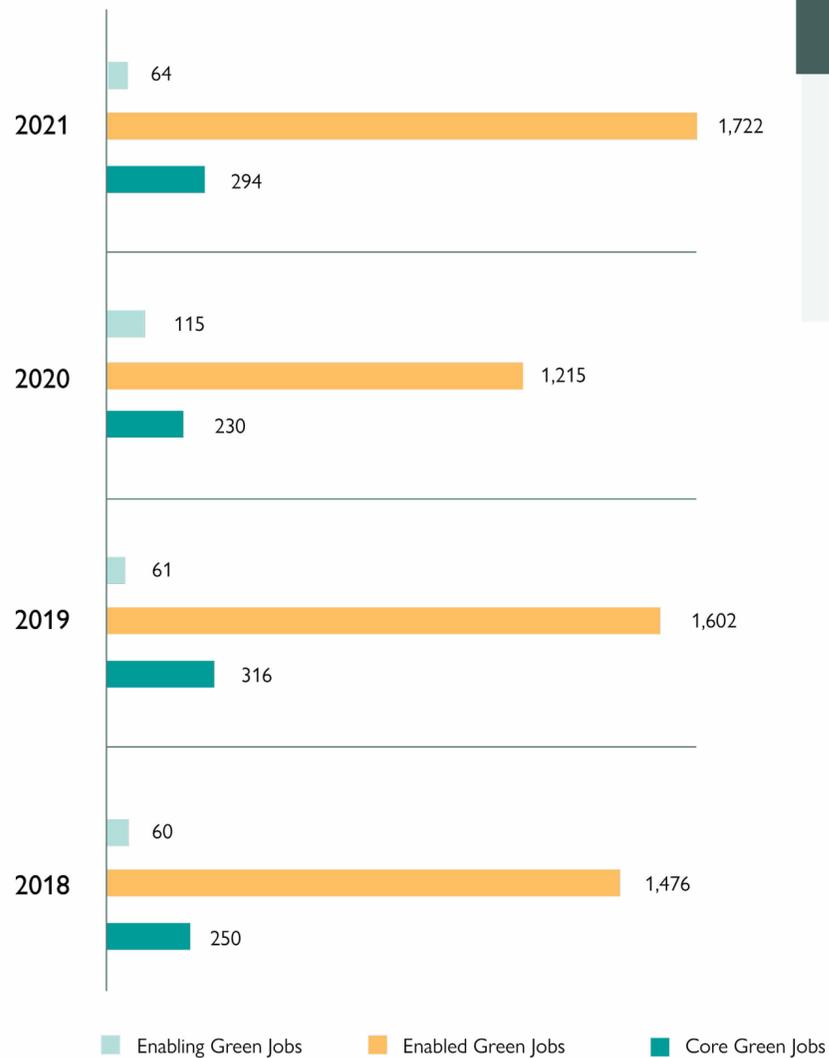
Projected Five-year Growth for Green Jobs



2,080

Total Green Job Openings

YEARLY JOB POSTINGS

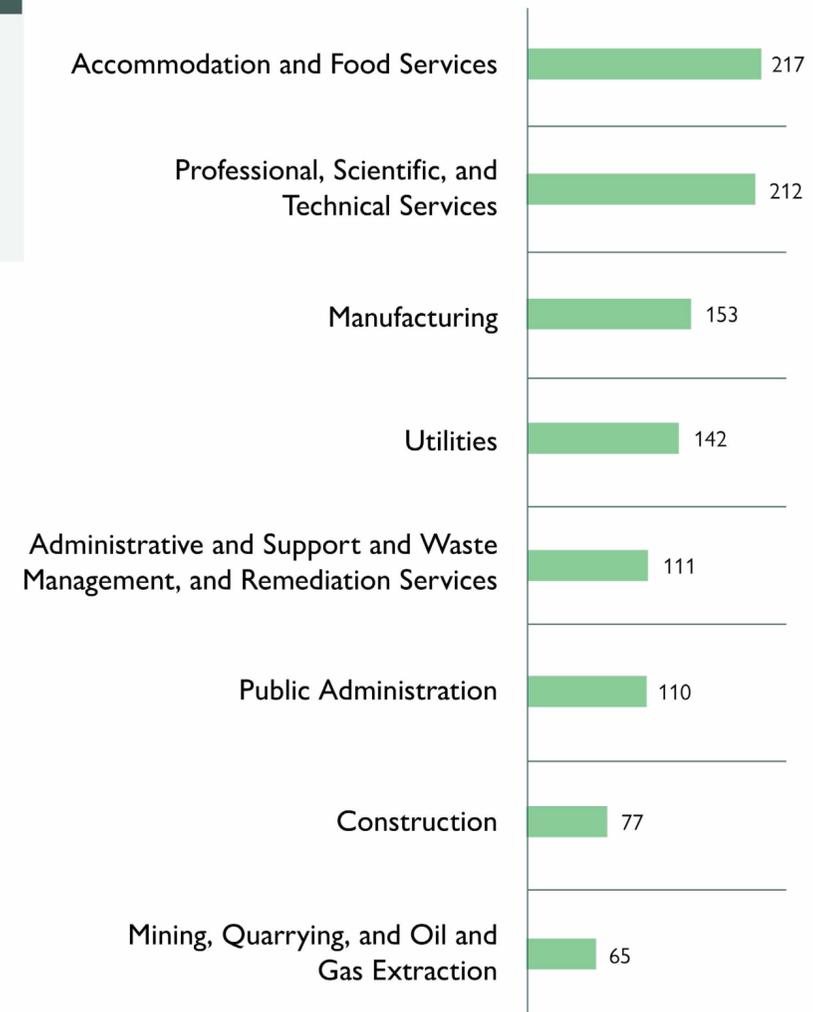


Source: Emsi Burning Glass Data, 2022

Figure 3:
Annual Green Job Postings in Louisiana by Green Job Type

While 2020 saw a dip in demand for green enabled jobs, demand rebounded in 2021, and surpassed the levels seen since 2018. Green enabled jobs are by far the most in-demand in Louisiana.

TOP INDUSTRIES DEMANDING GREEN WORKERS NOW

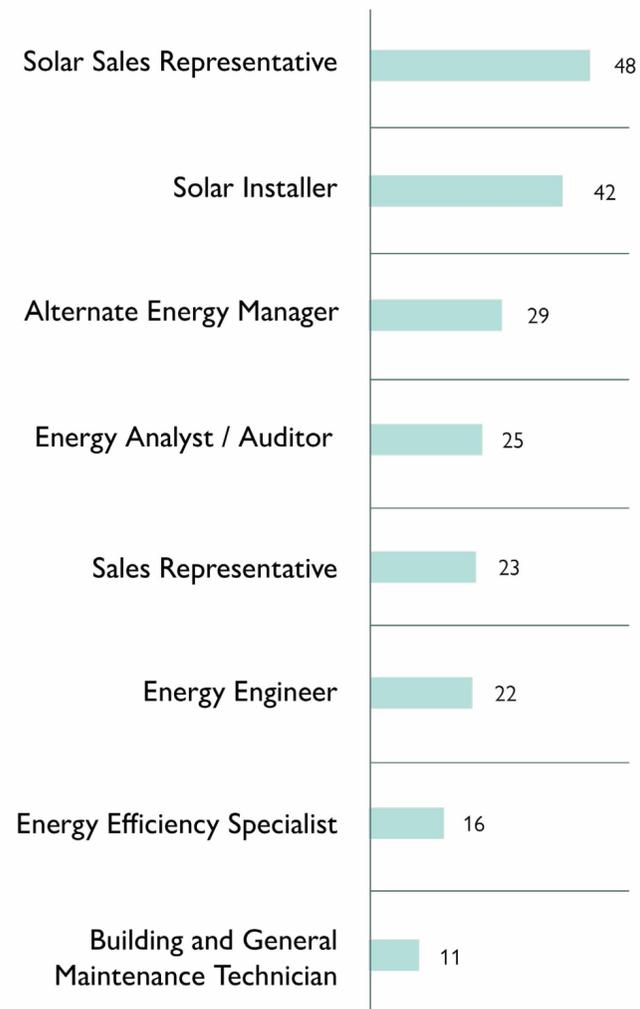


Source: Emsi Burning Glass Data, 2022

Figure 4:
Industries Demanding Green Workers Now

In addition to strong demand for green jobs across occupation types, green jobs are found across many different industries. To understand the full breadth of green jobs, we can look at the industry breakdown of core, enabled, and enabling green jobs in 2021. The top industries for core and enabled green jobs are shown in Figure 4, along with their demand in 2021. Striking here is the wide range of industries and the presence of Accommodation and Food Services. Driving the high demand for green workers in Accommodation and Food Services are Building and General Maintenance Technicians with green skills.

CORE GREEN JOBS: TOP OCCUPATIONS

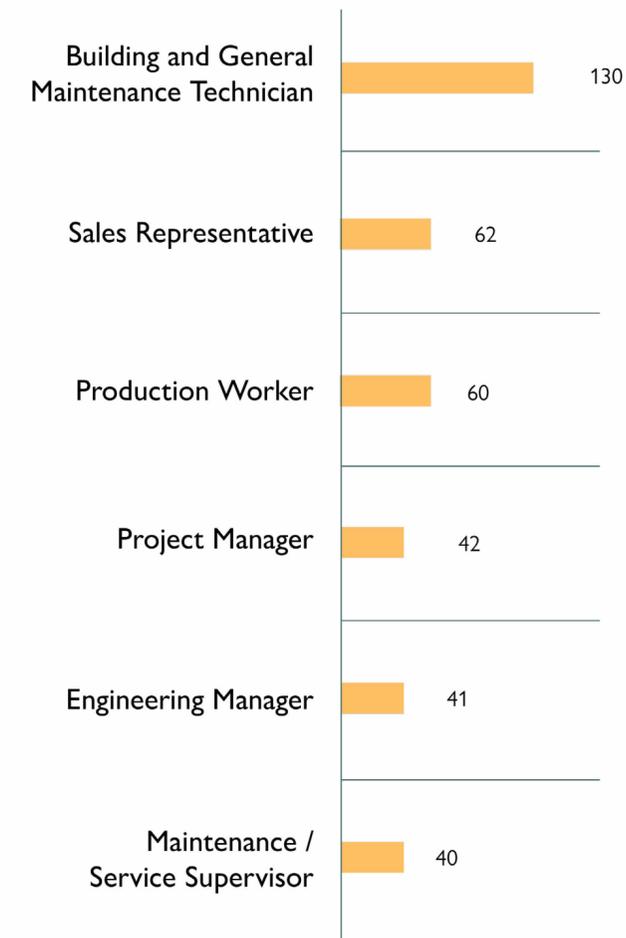


Source: Emsi Burning Glass Data, 2022

Figure 5:
Top Occupations in Louisiana's Core Green Jobs Ecosystem

Green jobs exist in many fields and workers across occupations and education levels can benefit by learning green skills. The top demanded occupations amongst core green jobs include Solar Sales Representatives, Solar Installers, and Alternate Energy Managers. If we look past the energy production and sales roles, we see that there is also a demand for Energy Auditors, Energy Engineers, and Energy Efficiency Specialists, who may be outside of the energy production space, and instead in the energy efficiency space.

GREEN ENABLED JOBS: TOP OCCUPATIONS



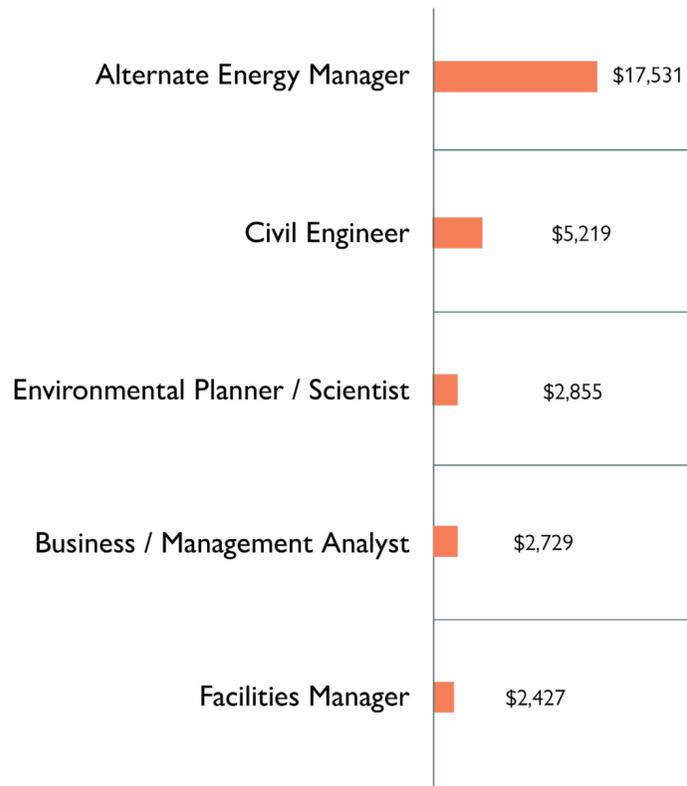
Source: Emsi Burning Glass Data, 2022

Figure 6:
Top Occupations in Louisiana's Green Enabled Jobs Ecosystem

When looking at the top demanded green enabled jobs, we find Building and General Maintenance Technicians and Maintenance / Service Supervisors taking up two of the six top positions. This suggests that there is demand for skills and competencies relating to the upkeep of green energy systems. Production Workers and Project Managers ranking high amongst green enabled occupations indicate a demand in the manufacturing sector, while Sales Representatives echo the findings of a strong sales demand in core green jobs.

Green enabling jobs run the gamut, as they encompass all workers who play a role in a company or organization that has sustainability or conservation as a part of their mission. In all, over 76 different specialized occupations were represented in the jobs identified as green enabling in Louisiana in 2021.

SALARY BOOST FOR GREEN SKILLS

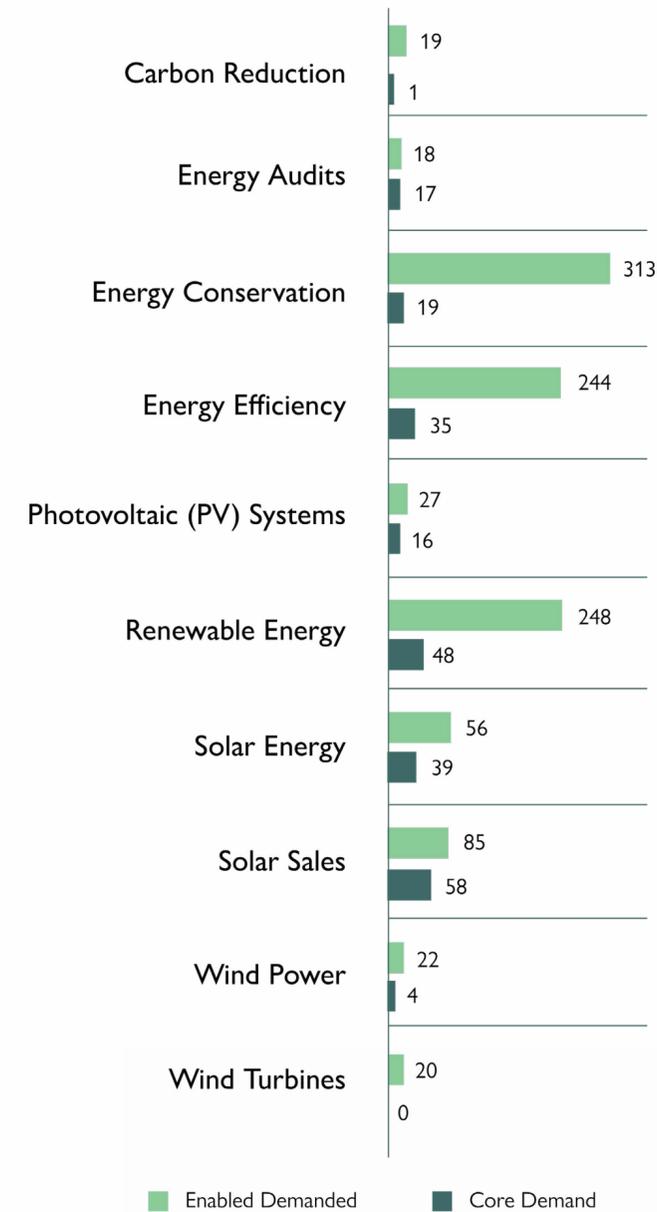


Source: Emsi Burning Glass Data, 2022

Figure 7:
Annual Salary Boost for Green Skills in Selected Occupations in Louisiana

For workers in many core green and green enabled occupations, there is a significant salary boost for having green skills and competencies on their resume. For example, a Civil Engineer who has green skills and competencies could make \$5,200 more than average for the occupation. Figure 7 shows additional roles with significant demand for green skills that command a salary boost in Louisiana.

TOP DEMANDED GREEN SKILLS



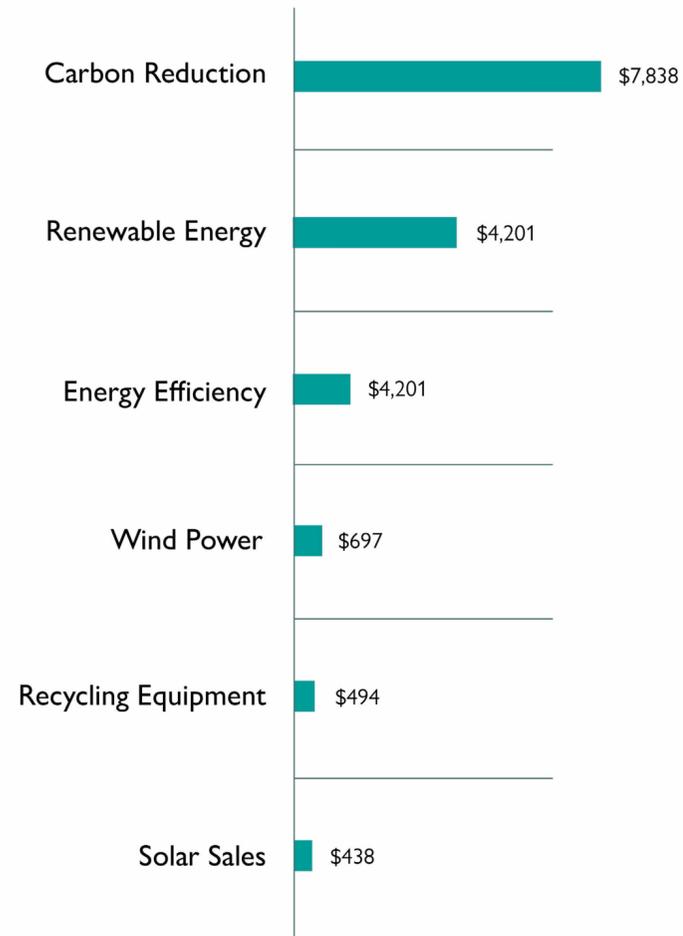
Source: Emsi Burning Glass Data, 2022

Figure 8:
Most-Demanded Green Skills in Louisiana

Skills related to energy efficiency, renewable energy, and other green specializations are in-demand and offer significant salary boosts.

The top demanded green skills in core green jobs are shown in Figure 8. These skills and competencies represent opportunities for existing and new entrants to upskill in order to be qualified for more jobs. A worker in a core green or green enabled job, as well as a potential green worker, can benefit financially from adding these skills to their toolkit. The upskilling necessary would likely be something that could be completed in a shorter period of time, and could be serviced by local workforce development, or other means.

ENERGY ANNUAL SKILLS SALARY PREMIUM

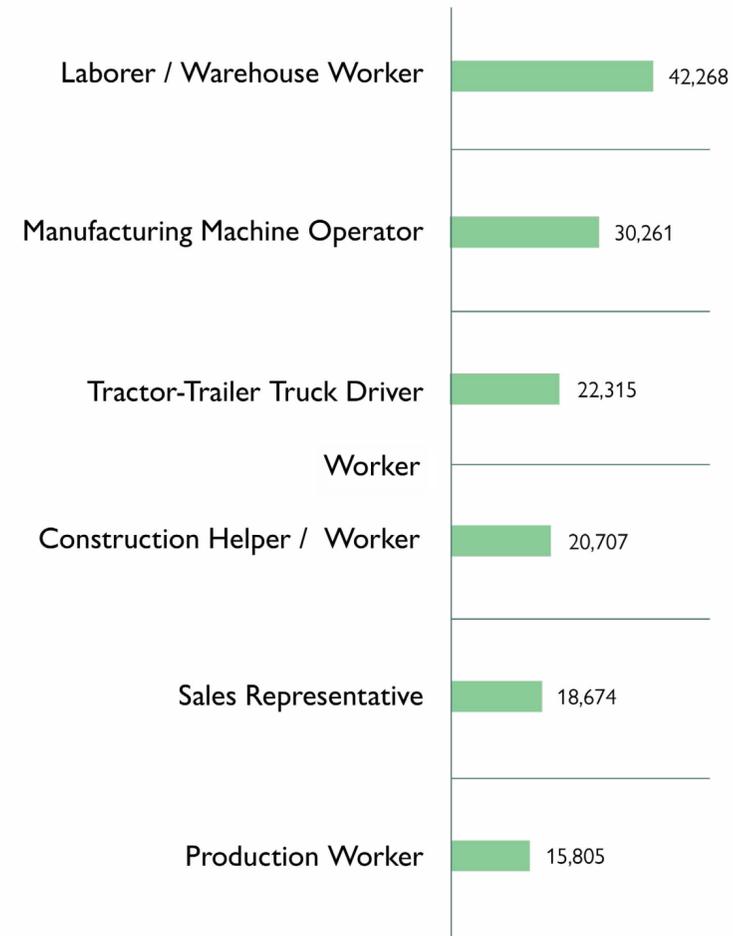


Source: Emsi Burning Glass Data, 2022

Figure 9:
Average Annual Salary Premium by Selected Green Skills in Louisiana

From the most in-demand green skills, workers interested in entering the green workforce can prioritize what skills and competencies to acquire. Also important for existing and potential green enabled workers is identifying the skills and competencies that are most lucrative within the green workforce. We calculate the salary boost associated with green skills as the additional salary above the average that a worker might earn if they have the skill in their arsenal. As shown in Figure 9, many key green skills offer significant annual salary increases of \$500 or, for some skills such as Carbon Reduction, considerably higher.

LARGEST POOLS OF POTENTIAL GREEN WORKERS



Source: Emsi Burning Glass Data, 2022

Figure 10:
Largest Occupations Where You Can Find Potential Green Workers

There are 462,580 workers in Louisiana who could be reskilled into green jobs.

Examining occupations that are similar to core green jobs, which we would categorize as potential green jobs, we can identify the workers who are likely able to be upskilled at a lower cost, and on a shorter time horizon, for employment in a green job. There are 462,580 workers in Louisiana in these occupations, suggesting a vast and diverse pool of potential new green workers. Some of the largest pools of potential green workers are shown in figure 10.

Summary of Findings

Louisiana's Green Workforce is Large and Growing

We estimate that there are over 11,073 workers across core, enabled, and enabling green jobs in Louisiana's green economy, and there were 2,080 green job openings in the state in 2021. By comparison, this is more than twice the demand for general accountants in Louisiana. Demand for these green workers is also growing rapidly, which may put a strain on the training community helping to develop the next generation of green workers. We project that in the next two years, employment for green jobs will increase by 2.85%.

Demand for Green Enabled Jobs is Strong, and Green Jobs Are Spreading Across Industries

Green jobs have shown stability in Louisiana in recent years. Looking from 2018 through 2021, there has been steady and significant demand for core, enabled, and enabling green jobs. Demand for core green jobs has been stable around 300 jobs per year, with only a slight drop to 230 jobs in demand due to the Covid-19 pandemic. Following the shock of the pandemic, we find a sharp increase in demand for green enabling jobs — these are jobs that may be at firms where conservation or sustainability are primary objectives, but where the main tasks of the job are not directly involved with what would be considered green work (i.e. an accountant at a solar energy company).

Figure 11:
Green Jobs Demand and Projected Growth in Louisiana

11,073

CURRENT EMPLOYMENT

Workers estimated to be in green jobs today.

2,080

2021 JOB POSTINGS

Data covers the full year of 2021.

2.85%

PROJECTED GROWTH

Projectd five-year growth for green jobs.

Recommendations

Individuals

Invest in learning green skills and preparing for green jobs that currently exist, and that are expected to grow or emerge in the coming years. There are many jobs across the economy that offer lucrative, sustainable career opportunities and support the transition to greener forms of energy generation and usage, water usage, construction techniques, and transportation strategies.

If you are just starting your training, or new to the workforce, consider looking at careers in green fields of interest to you. If you are an existing worker, understand the green jobs that rely on some of the skills you currently possess. Consider the green skills you could develop that will help you use your current position to conserve energy, water, or materials. See how additional green skills can help you advance in your existing field, increase your earning potential, or help you transition out of a declining or stagnant job into sustainable career opportunities that will be present for a long period of time as the green economy grows.

Employers

Focus on reskilling your workers in green skills. To do this effectively, first identify the jobs across your organization and industry that are most likely to be impacted by emerging green technologies and trends, and where within your operation you stand to make the most meaningful gains on energy purchase, energy and water efficiency, materials usage, and transportation efficiency. Then, determine what are the most important emerging and high-value skills your workforce will need to achieve those efficiencies that you can help them develop with targeted, high-return-on-investment training.

For example, if you need workers with new energy efficiency or renewable energy skills, consider building a training program — or tapping into an existing program in the community — that can help upskill your existing workers rather than recruiting new workers with these skills that, on average, will command salaries higher than your current workers.

Educators

Pinpoint the green jobs and skills that are growing the most rapidly in your district or region and help your students understand which jobs are the most stable and offer the most favorable wages for occupations at various education levels.

Develop programs for all types of learners — such as recent high school graduates, members of the current workforce, unemployed and underemployed youth and adults — so that you can build programs that prepare workers in different fields and with different educational backgrounds for careers in the green economy. You may also partner with employers in your region to ensure your students have job opportunities upon graduation, and to ensure your programs align with the needs of local employers.

Policymakers

Invest in workers who can gain green skills and impact efficiency and sustainability and become competitive for the growing demand for workers in green core and green enabled occupations. Invest in training programs that focus on green skills, and couple investments in green infrastructure with investments in training to ensure that there are workers available to fulfill the sustainability and efficiency objectives. This may mean supporting reskilling programs for workers at risk of disruption — such as those in declining fields or energy industries that may be replaced by greener forms of energy generation — so these workers may be redeployed into more sustainable green jobs.

You may also use your power as a convener to bring together local stakeholders with an interest in building the green workforce, such as local employers, educators, and workforce development nonprofits.

About

About the Data

To conduct this research, EBG drew from its detailed database of online employer demand and worker supply, which includes over a billion current and historical job postings and career histories across the globe. Emsi Burning Glass collects postings from numerous online sources to develop a comprehensive, real-time portrait of labor market demand. Our software extracts top line information about each job such as title, employer and industry, and then “reads” each job description to identify actual job titles, skills, and qualifications listed in job records. We then eliminate duplicate jobs and place each job in a database for further analysis. Our detailed data offer the unique ability to identify and track important labor market trends as they happen, and before they are visible in other data series.

About WorkingNation

Launched in 2016, WorkingNation focuses on raising awareness of the gaps between the skills workers and job seekers have and the skills employers need and want in their 21st century workforce. WorkingNation knows that it is necessary to ignite a national conversation about the future of work and equitable access to opportunity, especially as we navigate a post-pandemic recovery which has accelerated tech innovation and changes in the way we work. It is imperative that we frame and deliver strong messages to multiple audiences with a strategic approach. WorkingNation does this through our focused storytelling — articles, video, podcasts, and live events — that both informs the supply-and-demand sides of the workforce equation and champions scalable solutions.

WorkingNation’s ultimate goal is to help this country achieve a greater understanding of how in facing 21st Century economic challenges, no cohort (demographic, economic, geographic, etc.) is immune to the impact of a changing workforce, and that none can be left behind in the march for reskilling and upskilling workers.

WorkingNation was founded by venture capitalist Art Bilger and operates in partnership with its 501(c)(3) fiscal sponsor, Creative Visions Foundation.

www.workingnation.org

About Emsi Burning Glass

Emsi Burning Glass is the world’s leading authority on job skills, workforce talent, and labor market dynamics, providing expertise that empowers businesses, education providers, and governments to find the skills and talent they need and enables workers to unlock new career opportunities.

With engineers and data specialists continually collecting and analyzing data from thousands of job boards, company websites, online resumes, employee profiles, and traditional government sources, the company produces the most comprehensive, up-to-date picture of the labor market available.

Emsi Burning Glass market research, analytical software, and data expertise is used by companies across the globe to better understand their own workforce and identify skilled and diverse talent for future growth. The company also guides colleges and universities in connecting their programs to the needs of the local labor market, and advises government entities in creating more effective programs for economic prosperity.

Headquartered in Boston, Massachusetts, and Moscow, Idaho, Emsi Burning Glass is active in more than 30 countries and has offices in the United Kingdom, Italy, New Zealand, and India. The company is backed by global private equity leader KKR.

www.emsibg.com