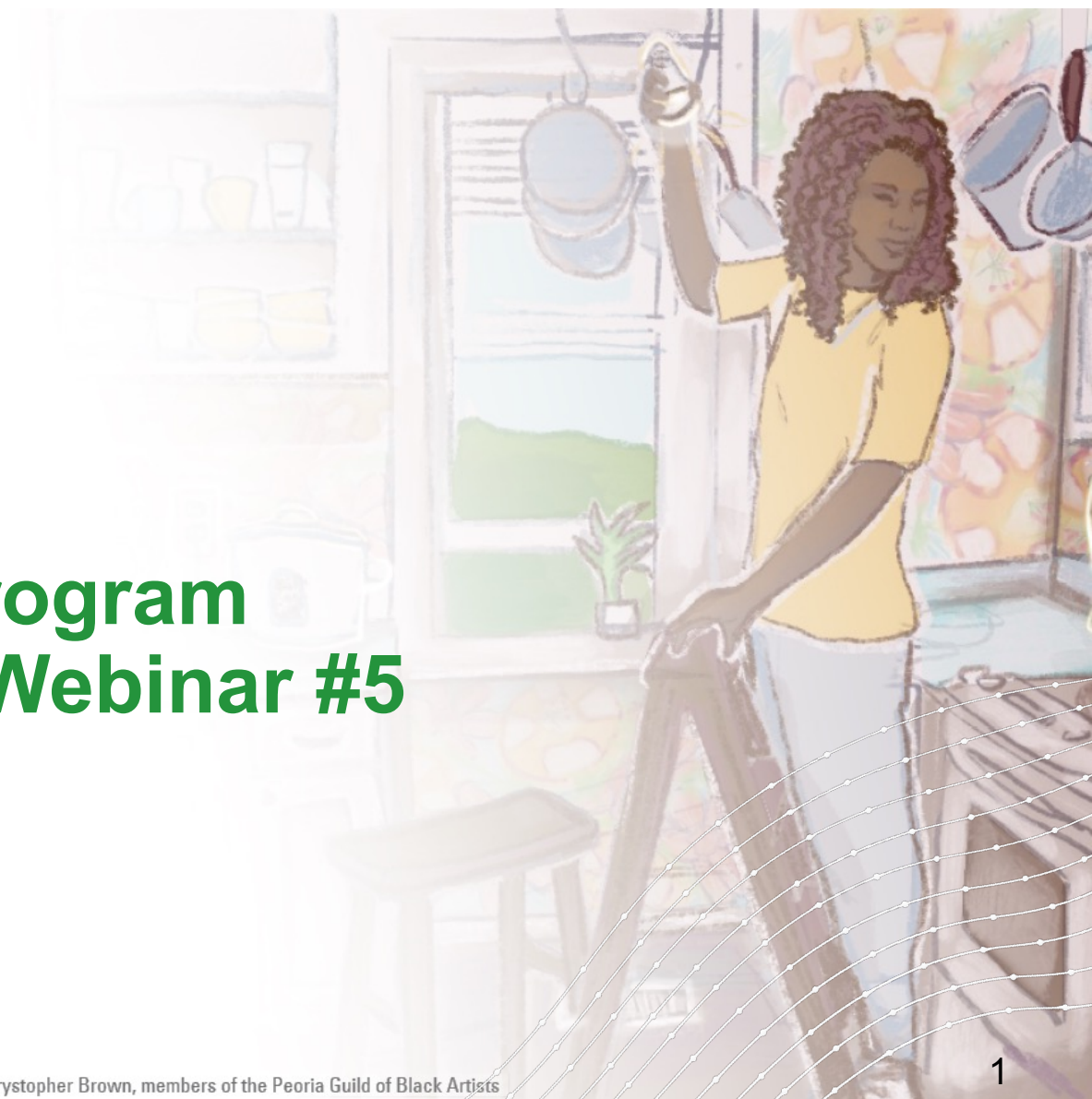




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# Ameren Illinois Energy Efficiency Program Summer Internship Webinar #5

Weatherization



Artwork by Brenda Pagan and Krystopher Brown, members of the Peoria Guild of Black Artists

# Meet An Energy Professional

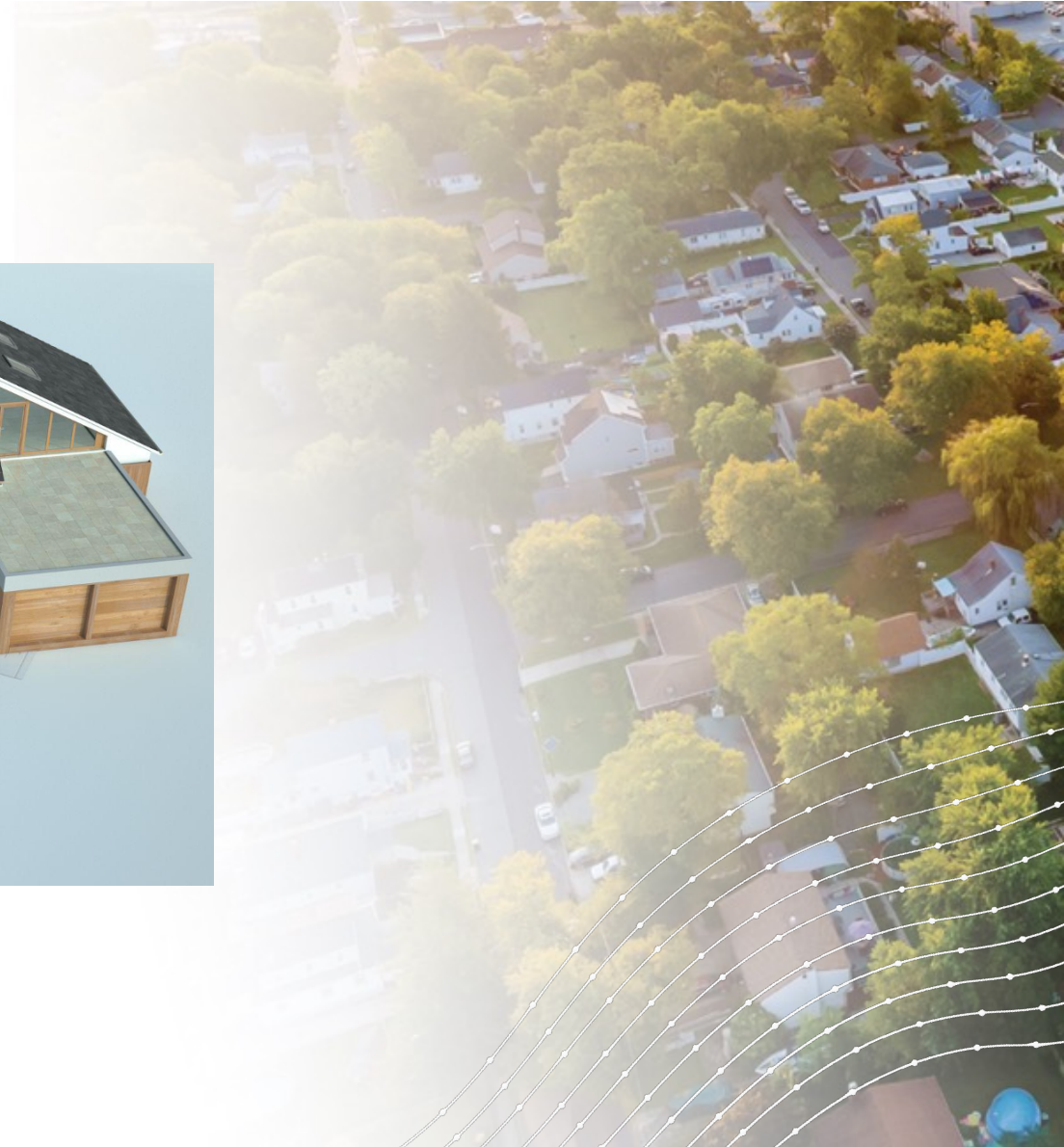


**Chad Whitehead**  
Energy Advisor  
GDS Associates, Inc.



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# Weatherization



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# Whole-House Weatherization Activity



**Air Sealing**

**Electronics**

**Ventilation**

**Appliances**

**Insulation**



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# Whole Home Weatherization

<b>Air Sealing and Insulation</b>	<b>Electronics</b>	<b>Ventilation</b>	<b>Appliances</b>
<b>Spray foam insulation</b>	<b>Indoor air quality monitors</b>	<b>Whole house fan</b>	<b>Reduce leaks near oven hoods</b>
<b>Infrared lighting to determine leaks</b>			
<b>Window seal / weatherstripping</b>			



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# Benefits of Weatherization

- Energy Efficiency
  - › Install pipe insulation on hot water heater pipes.
  - › Reduce heat loss/gain by providing attic, wall and basement insulation.
  - › Seal air leaks around doors, windows and vents.
- Health and Safety
  - › Can help to improve indoor air quality.
  - › Can sometimes reduce moisture.
  - › Repair leaks in pipes or roofs.
  - › Improve the comfort of indoor air temperature.
  - › Ensure safe operation of furnace and water heater.



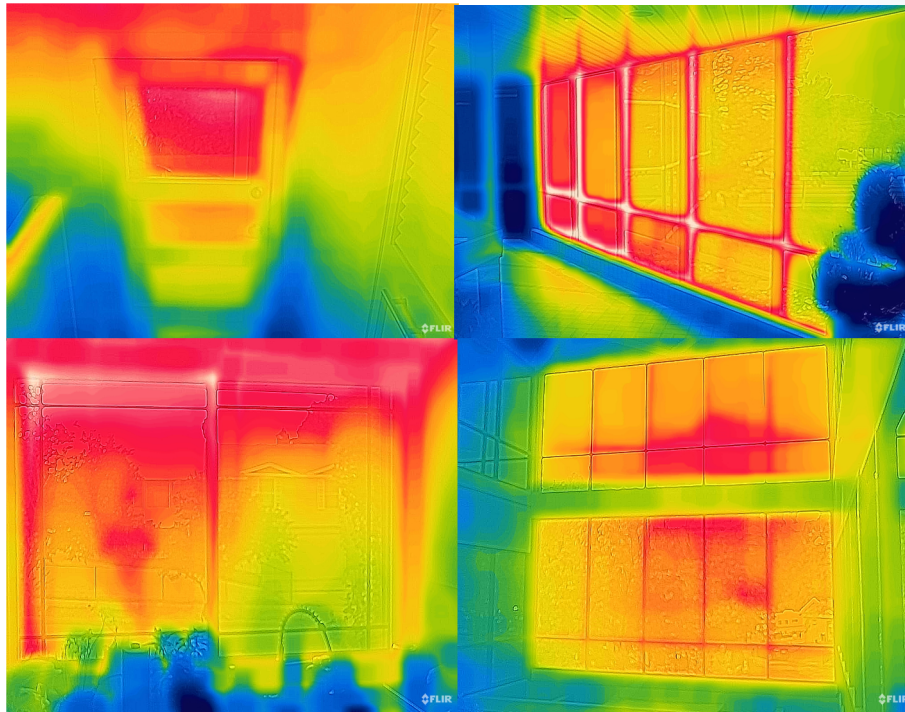
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# Proper Insulation



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# Air Leaks



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# Air Sealing



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# Review from Webinar #3

- Low Income Home Energy Assistance Program (LIHEAP)
- Illinois Home Weatherization Assistance Program (IHWAP)
- Home Efficiency Income Qualified (HEIQ) Initiative
- Mobile Home Initiative (MHI)



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# Careers in Weatherization



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Artwork by Alexander Martin, member of the Peoria Guild of Black Artists

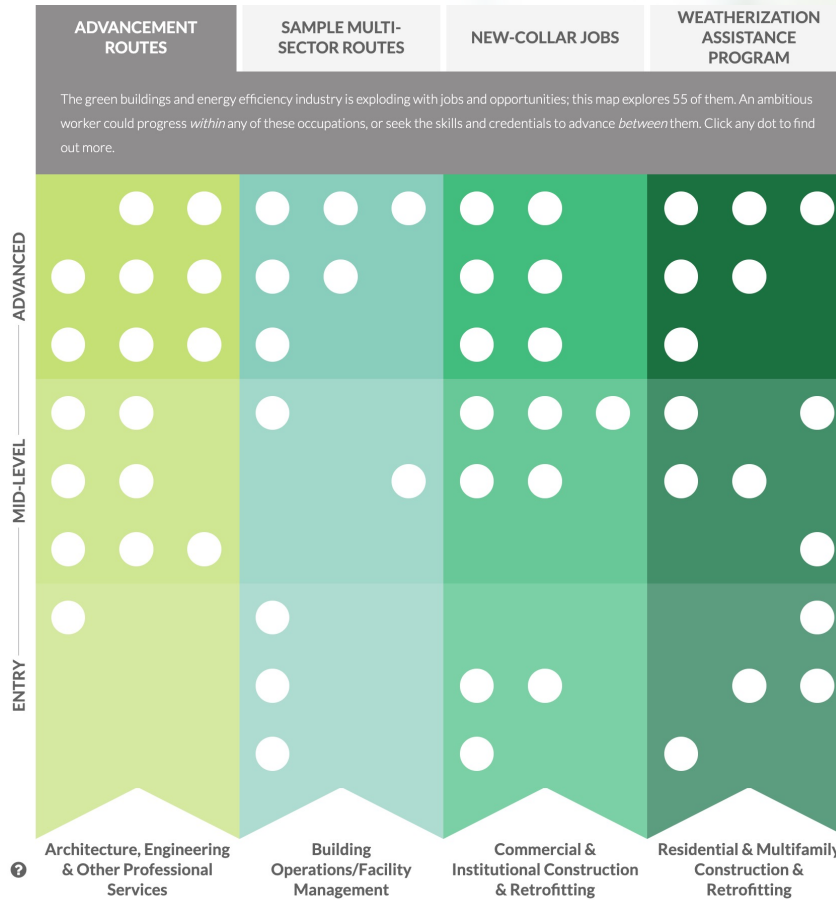
# Home Energy Performance Jobs

- Who works in weatherization-related jobs?
  - Building Scientists
  - Building Trainers
  - Building Performance Installers
  - Retrofit Installer Technician
  - Energy Auditors
  - Green Building Professionals
  - Crew Leader
  - Quality Control Inspection
  - Healthy Home Evaluator
  - HVAC Contractor
  - Energy Efficiency Program Coordinators
  - And many others!



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# Green Buildings Career Map



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# Building Performance Institute (BPI)

- BPI Certified Professionals solve home and building performance problems.
  - › Building Analyst
  - › Multifamily Building Analyst
  - › Energy Auditor
  - › Quality Control Inspector
  - › Building Analyst Professional
  - › Building Science Principles Certificate
  - › Healthy Housing Principles
  - › Total Building Performance Certificate



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# Points of Entry

- Green Workforce Connect
  - › [GreenWorkforceConnect.org](http://GreenWorkforceConnect.org)
- Illinois Energy Efficiency Jobs
  - › [IllinoisEnergyEfficiencyJobs.com](http://IllinoisEnergyEfficiencyJobs.com)
- Building Performance Institute
- Workforce Development Program
  - › [AmerenIllinoisSavings.com/Jobs](http://AmerenIllinoisSavings.com/Jobs)



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# Wrap-Up Presentations

- Where are you from?
  - Where did you work this summer?
  - What did you do during your internship?
  - What was your favorite thing that you did during your internship this summer?
  - What are your plans for the future?
- 
- Due Friday, July 26<sup>th</sup>
  - [marissa@nef1.org](mailto:marissa@nef1.org)



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# Upcoming

- Final webinar
  - › July 24
  - › 12:00 p.m. – 1:00 p.m.
- Volunteer Event #2
  - › July 26
  - › 10:00 a.m. – 3:00 p.m.
  - › Senior Services Plus
  - › Alton, IL



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