Extending Equity into the Digital Workforce

eedw.nmrec1.org

Why IT – Renewable Energy

Proficiency in IT opens up diverse career opportunities in the growing field of renewable energy, including roles in data analysis, software development, system integration, and research.

1 | Data Analysis

IT courses can teach students how to analyze data collected from renewable energy sources, helping them understand patterns and optimize energy production.

2 | Simulation and Modeling

IT skills enable students to create simulations and models to predict the performance of renewable energy systems under various conditions.

3 | Remote Monitoring

IT knowledge allows students to set up remote monitoring systems for renewable energy installations, enabling real-time data collection and analysis.

4 | Programming Skills

Learning programming languages like Python can help students develop software to control and manage renewable energy systems efficiently.

5 | IoT Integration

IT courses teach students how to integrate renewable energy systems with Internet of Things (IoT) devices for enhanced monitoring and control.

6 | Cybersecurity Awareness

Understanding IT security is crucial for protecting renewable energy systems from cyber threats and ensuring their reliability and safety.

7 | Cloud Computing

Knowledge of cloud computing enables students to store and analyze large amounts of data generated by renewable energy systems more efficiently.

8 | Big Data Analytics

IT skills empower students to apply big data analytics techniques to extract valuable insights from renewable energy data for improved decision-making.

9 | GIS Applications

Geographic Information Systems (GIS) skills can be valuable for mapping renewable energy resources and planning their optimal utilization.

10 | Automation

IT courses teach students how to automate processes in renewable energy systems, increasing efficiency and reducing operational costs.

David Bowman, Director: director@nmrec1.org
325 N. Bergin Ln., Bloomfield, NM 87413
PR# S411B210027