

Ph.D. in Renewable Energy,

Minor in Faith-Based Sustainability and Green Technology

HBI University

Course Duration: 3 years

Credit Hours: 105 (including minor)



Program Description

The Doctor of Philosophy (Ph.D.) in Renewable Energy at HBIU University is designed to provide students with advanced knowledge, research skills, and leadership capabilities to tackle the challenges and opportunities in the rapidly evolving field of renewable energy. The program covers both theoretical and applied aspects of renewable energy systems, including solar, wind, geothermal, bioenergy, and energy storage technologies. Graduates will be equipped to contribute meaningfully to sustainable energy practices, conduct cutting-edge research, and implement innovative solutions that address global energy challenges. Students will gain expertise in energy policy, sustainability, and the integration of renewable energy technologies into existing infrastructure.

The Minor in Faith-Based Sustainability and Green Technology specialization offers a unique focus on how faith-based principles can inform and guide sustainability efforts and the development of green technologies. This specialization explores the intersection of faith and environmental stewardship, with a focus on ethical considerations in the design and implementation of sustainable energy solutions.

Topics include faith-driven environmental ethics, promoting sustainable energy practices in faith-based communities, and integrating green technologies in socially responsible ways. Students will be prepared to lead faith-based sustainability initiatives, work in environmental advocacy organizations, and implement green technologies that align with Christian values of stewardship and care for creation.

Admissions Requirements

- Master's degree in a relevant field
- Minimum GPA of 3.0
- GRE scores (if applicable)
- Statement of Purpose (1,000-1,500 words) outlining research interests
- Three letters of recommendation
- Academic writing sample
- Curriculum Vitae (CV) or resume
- Interview with faculty (if required)

General Education Courses (30 Credit Hours)

| Course Code | Course Name | Credit Hours |
|-------------|--|--------------|
| GEN 101 | Critical Thinking and Writing | 3 |
| GEN 102 | Research and Information Literacy | 3 |
| GEN 103 | Ethics and Social Responsibility | 3 |
| GEN 104 | Statistical Methods for Research | 3 |
| GEN 105 | Leadership and Strategic Planning | 3 |
| GEN 106 | Global Perspectives and Cultural Awareness | 3 |
| GEN 107 | Philosophical Foundations of Inquiry | 3 |
| GEN 108 | Technology and Data Analysis | 3 |
| GEN 109 | Organizational Behavior and Change | 3 |
| GEN 110 | Public Policy and Governance | 3 |

Core Foundational Courses (23 Credit Hours)

| Course Code | Course Name | Credit Hours |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

| | | |
|----------|--------------------------------|---|
| PH.D 701 | Advanced Theories in the Field | 3 |
| PH.D 702 | Applied Research Methods | 3 |
| PH.D 703 | Leadership and Ethics | 3 |
| PH.D 704 | Strategic Decision Making | 3 |
| PH.D 705 | Policy and Governance | 3 |
| PH.D 706 | Innovation in the Field | 3 |
| PH.D 707 | Case Study Analysis | 2 |
| PH.D 708 | Capstone in the Field | 3 |

Minor in Faith-Based Sustainability and Green Technology (15 Credit Hours)

| Course Code | Course Name | Credit Hours |
|-------------|------------------------------------|--------------|
| MINO 701 | Introduction to the Minor Field | 3 |
| MINO 702 | Ethics and Best Practices | 3 |
| MINO 703 | Case Studies and Applications | 3 |
| MINO 704 | Policy and Governance in the Minor | 3 |
| MINO 705 | Capstone Project in the Minor | 3 |

Program Outcomes

- Conduct advanced research in ph.d. in renewable energy.
- Develop expertise in minor in faith-based sustainability and green technology and its applications.
- Lead policy, research, and practical implementation in the field.
- Contribute to academic and industry advancements.

Career Outcomes and Potential Pay Scale

| Career Path | Average Salary (Annual) |
|----------------------|-------------------------|
| University Professor | \$80,000 - \$140,000 |
| Policy Analyst | \$85,000 - \$135,000 |
| Research Director | \$90,000 - \$150,000 |
| Government Advisor | \$100,000 - \$160,000 |
| Non-Profit Executive | \$75,000 - \$140,000 |