



## Electrical Project Engineer (m/f/d) for Biochar Pyrolysis Plant

### THE PROJECT

We are developing the next prototype of our medium scale Biochar Pyrolysis plant. Biochar produced from waste Biomass sequesters carbon from the atmosphere and the pyrolysis process is also a source of renewable energy. Biochar can be used for many beneficial purposes including the enrichment of agricultural soils, which can improve crop yields and reduce fertiliser usage.

### THE ROLE

The Electrical Project Engineer will be responsible for the design, development and installation of all electrical systems in our prototype Biochar pyrolysis plant. This includes sensor network and communications design, as well as specification of all electrical components for industrial control and automation. The engineer will manage freelancers and external contractors where necessary and supervise the electrical engineering from design through to final implementation.

### MAJOR TASKS

- Specify and select appropriate sensors for industrial control purposes
- PCB design for sensor electronics
- Embedded software programming for sensor network
- Design of communications between sensor network and PLC
- Specification of control components (Relays, Switches, Motor Protection, VFD's, Feedback)
- Switch cabinet design
- Management of freelancers and contractors where necessary
- Maintain technical documentation and drawings in accordance with industry standards
- Procurement and supervision of electrical installations

### YOUR PROFILE

- Technical education in electrical engineering, embedded systems, control engineering, electronics or mechatronics
- Experience with industrial control and automation
- In-depth knowledge of sensor network design and electrical communications
- Knowledge of EMI and electrical shielding
- Ability to create technical drawings and communicate effectively with external contractors
- Experience with PCB design software (Eagle, Altium, etc.)
- Experience with programming in C, Python, etc.
- Experience with hands-on electrical prototyping and development, as well as control cabinet design is a plus
- Strong organizational skills
- Good communication in English and German

### YOUR APPLICATION

We look forward to receiving your application. Please submit your letter of motivation, CV and references to [karriere@wiventure.de](mailto:karriere@wiventure.de) - <https://wiventure.de/>

For further questions please contact Anke Boveland: +49 6131 4908341.