 <p>WATANA ENGINEERING, PLLC 8058 Corporate Center Drive Charlotte, NC 28226</p>	Job Class:	CAD-Designer
	Department:	Engineering – Substation Physical
	Reports To:	Senior Substation Designer
	FLSA:	Exempt
	Revision Date:	09/09/2021

This position is for an Entry/Mid-Level CAD-Designer to join our team in Charlotte, NC. This person will support the scoping, engineering, and design of power delivery infrastructure upgrades across North and South Carolina. Many projects are in support of Duke Energy, with future projects expected from other Electric Cooperatives and Municipalities.

This CAD-Designer role will be in the Substation Physical Engineering group and under supervision shall perform the following:

- Projects tasks consisting of retrofitting and/or expanding existing stations, replacing aging apparatus (i.e., main power transformers, breakers, circuit switchers and switches), in stations ranging from 12.47kV through 500kV.
- Support lead engineers and designers with drawing production associated with foundation and station layouts, bus configurations, lighting, trench/conduit routing, and apparatus/equipment arrangements while ensuring clearances maintained.
- Work with senior designers and engineers to prepare documents needed to complete all physical electric utility substation engineering/design tasks including vendor drawings, client standard details, Bills of Material, drawing packages, etc.
- Gain proficiency producing designs/exhibits using technical resources in the identification, analysis, and resolution of challenges.
- Develop effective planning, organizing, estimating, scheduling, and monitoring of work activities.
- Develop continuous improvement of job-related, design, technical and professional knowledge, skills, and performance.
- Time will be split between onsite station assessments and in the office performing engineering/design work.
- Other duties as assigned by the Engineering Manager and Senior Designer.


Minimum Qualifications:

- Graduation from a college or university with an Associate Degree in Engineering Technology (or equivalent) or 2 to 4 years of equivalent CAD/Design experience in lieu of degree.
- Proven AutoCAD and/or Microstation skills.
- Desire to start a career in the power utility industry.
- Ability to work and interact with a variety of individuals from various socio-economic, cultural, and ethnic backgrounds.
- Self-motivated with ability to work independently and within a team environment.
- Good written and oral communication skills including thorough and accurate correspondence, documentation, and sketches.

Desired Qualifications:

- Previous experience within the utility industry.
- Working knowledge of utility standards and general construction knowledge and aptitude.
- Experience interacting with customers and developers for power delivery projects.
- Knowledge of Maximo, AutoCAD Civil 3D, Raster, Bentley Microstation V8/V8i and/or other design tools.
- Knowledge of CFR, NEC, NESC, and RUS standards as related to substation design.

The company is an equal opportunity employer and will consider all applications without regards to race, sex, age, color, religion, national origin, veteran status, disability, sexual orientation, gender identity, genetic information or any characteristic protected by law.

 <p>WATANA ENGINEERING, PLLC 8058 Corporate Center Drive Charlotte, NC 28226</p>	Job Class:	Engineer
	Department:	Engineering – Substation Physical
	Reports To:	Engineering Manager
	FLSA:	Exempt
	Revision Date:	09/09/2021

This position is for an Entry/Mid-Level Engineer to join our team in Charlotte, NC. This person will support the scoping, engineering, and design of power delivery infrastructure upgrades across North and South Carolina. Many projects are in support of Duke Energy, with future projects expected from other Electric Cooperatives and Municipalities.

This Engineer role will be in the Substation Physical Engineering group and perform the following:

- Projects tasks consisting of retrofitting and/or expanding existing stations, replacing aging apparatus (i.e., main power transformers, breakers, circuit switchers and switches), in stations ranging from 12.47kV through 500kV.
- Support lead engineers with calculations associated with foundation and structural analysis, grounding, SPCC, lightning protection, rigid bus analysis, trench/conduit fills, ampacity, electric loads, and apparatus/equipment sizing.
- Work with designers to define the prepare documents needed to complete all physical electric utility substation engineering/design tasks including scope documents, Bills of Material, drawing packages, construction support, etc.
- Gain proficiency performing engineering calculations and reports using available technical resources in the identification, analysis, and resolution of problems.
- Develop effective planning, organizing, estimating, scheduling, and monitoring of work activities.
- Develop continuous improvement of job-related, engineering, technical and professional knowledge, skills, and performance.
- Time will be split between onsite station assessments and in the office performing engineering/design work.
- Other duties as assigned by the Engineering Manager.


Minimum Qualifications:

- Graduation from an ABET accredited college or university with a Bachelor of Science in Engineering.
- EIT/ Passed Fundamental of Engineering Exam.
- Desire to start a career in the power utility industry.
- Understanding of basic practices of researching engineering and design issues, evaluating alternatives, preparing, and presenting sound recommendations.
- Ability to work and interact with a variety of individuals from various socio-economic, cultural, and ethnic backgrounds.
- Self-motivated with ability to work independently and within a team environment.
- Good written and oral communication skills including thorough and accurate technical reports, correspondence, documentation, calculations, and sketches.

Desired Qualifications:

- Previous Co-Op/Intern experience within the utility industry.
- Experience in the electric utility industry, with working knowledge of primary and secondary distribution systems, utility standards, ability to use design software packages, and general construction knowledge and aptitude.
- Experience interacting with customers and developers for power delivery projects.
- Knowledge of AutoCAD, MFAD, Maximo, MathCAD, WinIGS, and/or other engineering/design tools.
- Knowledge of ACI, ASME, ANSI, ASCE, CFR, IEEE, NEC, NESC standards as related to power delivery substations.
- Actively pursuing completion of the Principles and Practice (PE) Exam.

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 <p>WATANA ENGINEERING, PLLC 8058 Corporate Center Drive Charlotte, NC 28226</p>	Job Class:	Engineer (Relay/Protection & Control)
	Department:	Engineering – Substation Relay
	Reports To:	Engineering Manager
	FLSA:	Exempt
	Revision Date:	09/21/2021

This position is for a Mid-Level Relay Engineer to join our team in Charlotte, NC. This person will support the scoping, engineering, and design of power delivery infrastructure upgrades across North and South Carolina. Many projects are in support of Duke Energy, with future projects expected from other Electric Cooperatives and Municipalities.

The Relay Engineer role will be in the Substation Engineering group and perform the following:

- Projects tasks consisting of retrofitting and/or expanding existing stations, replacing aging apparatus (i.e., from individual relays through complete control house upgrades), in stations ranging from 12.47kV through 500kV.
- Support lead engineers with calculations/engineering associated with protection schemes for substation and transmission line equipment – including bus, line, capacitor and transformer protection schemes and associated settings.
- Work with designers to define the prepare documents needed to complete all protection & control engineering/design tasks including scope documents, Component and material assemblies, equipment selection and specification, BoM's, one and three-line diagrams, drawing packages, construction support, etc.
- Lead and perform detailed QA/QC reviews of Protection and Control design packages, including point-to-point checks including interconnection of SCADA systems.
- Demonstrated ability performing engineering calculations and reports using available technical resources in the identification, analysis, and resolution of problems.
- Lead effective planning, organizing, estimating, scheduling, and monitoring of work activities.
- Lead continuous improvement of job-related, engineering, technical and professional knowledge, skills, and performance.
- Time will be split between onsite station assessments and in the office performing engineering/design work.
- Other duties as assigned by the Engineering Manager.

Minimum Qualifications:

- Graduation from an ABET accredited college or university with a Bachelor of Science in Electrical Engineering.
- Actively pursuing completion of the Principles and Practice (PE) Exam.
- Understanding of basic practices of researching engineering and design issues, evaluating alternatives, preparing, and presenting sound recommendations.
- Ability to work and interact with a variety of clients/individuals from various socio-economic, cultural, and ethnic backgrounds.
- Self-motivated with ability to work independently and within a team environment.
- Good written and oral communication skills including thorough and accurate technical reports, correspondence, documentation, calculations, and sketches.

Desired Qualifications:

- Previous experience within the utility industry.
- Experience in the electric utility industry, with working knowledge of primary and secondary distribution systems, utility standards, ability to use design software packages, and general construction aptitude.
- Experience interacting with customers and developers for power delivery projects.
- Knowledge of Aspen, ETAP, Maximo, MathCAD, and/or other engineering/design tools.
- Knowledge of ASME, ANSI, CFR, IEEE, NEC, NESC and RUS standards as related to power delivery substations.
- PE/Passed Principals and Practice Engineering Exam or ability to obtain PE licensure within six months of hire.

The company is an equal opportunity employer and will consider all applications without regards to race, sex, age, color, religion, national origin, veteran status, disability, sexual orientation, gender identity, genetic information or any characteristic protected by law.