

## PhD Position Tennessee Tech University

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Posted May 30, 2024, set to expire Sep. 29, 2024

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|-----------------------------|---|
| <b>Job Title</b>            | PhD Position  |
| <b>Department</b>           | Electrical and Computer Engineering   |
| <b>Institution</b>          | Tennessee Tech University<br>Cookeville, Tennessee  |
| <b>Date Posted</b>          | May 30, 2024  |
| <b>Application Deadline</b> | Open until filled   |
| <b>Position Start Date</b>  | Start Immediately   |
| <b>Job Categories</b>       | Graduate Student  |
| <b>Academic Field(s)</b>    | Energy Technology<br>Electrical and/or Electronics  |
| <b>Job Website</b>          | <a href="https://www.tntech.edu/directory/engineering/faculty/nan-chen.php">https://www.tntech.edu/directory/engineering/faculty/nan-chen.php</a> |
| <b>Apply By Email</b>       | <a href="mailto:nchen@tntech.edu">nchen@tntech.edu</a>  |

### Job Description

#### Position Overview:

**PhD Position:** Graduate research scholarship in the Department of Electrical and Computer Engineering at Tennessee Tech University, Cookeville, TN, USA is open for hiring immediately.

The candidate should have a background in **at least two of the following topics:**

1. Electric vehicle modelling in smart grid (mobility modelling, demand response etc.);
2. Power system analysis (optimal/stochastic power flow analysis, economic dispatch, etc.);
3. Stochastic process (Markov chain, queueing theory, etc.);
4. Optimization techniques (convex, NLP, MINLP, etc.);

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5. Machine learning techniques (neural networks, reinforcement learning, federated learning etc.).

If you are interested in joining my lab, please send the following application package to Dr. Chen via email: [nchen@tntech.edu](mailto:nchen@tntech.edu).

### Application Submission Details:

Interested applicants should send the following information as a single pdf to Dr. Nan Chen ([nchen@tntech.edu](mailto:nchen@tntech.edu))

- CV, including summary of educational background, grades, publication list, and research experience;
- One-page research statement;
- GRE score;
- All academic transcript;
- Names and email addresses of at least three references.

### Bio of Dr. Nan Chen:

Nan Chen (M'20) received her Ph.D. degree in Electrical and Computer Engineering from the University of Waterloo, Waterloo, ON, Canada in 2019. From Oct. 2019 to Feb. 2020, she worked as a post-doctoral fellow at the Broadband Communication Research (BBCR) group in the Department of Electrical and Computer Engineering at the University of Waterloo, supervised by Prof. Xuemin (Sherman) Shen. She joined the Department of Electrical and Computer Engineering at Tennessee Tech University as a tenure-track assistant professor in Spring, 2021. Her current research interests include electric vehicle charging/discharging scheme design in smart grid, next-generation wireless networks, and machine learning application in vehicular cyber-physical systems.

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**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**     Nan Chen  
Electrical and Computer Engineering  
Tennessee Tech University  
Cookeville, TN

**Contact E-mail**     nchen@tntech.edu