Ph.D. Opportunity in the Department of Electrical and Computer Engineering of University of Illinois at Urbana-Champaign (IL, USA) with a focus on

**MICROELECTRONICS AND PHOTONICS**

Innovative COrpound semiconductoR LABoratory (ICORLAB) led by Prof. Can Bayram in the Department of Electrical and Computer Engineering at University of Illinois at Urbana-Champaign is inviting undergraduate and graduate students to apply for PhD thesis openings in the areas of

- Novel III-V materials and hetero-structures, and
- Photonic and electronic quantum devices.

Particularly, our group explores

- Novel materials, devices, and their 3D hetero-integration on unconventional platforms such as graphene and silicon,
- Heat transport across/through semiconductors,
- Efficiency droop mechanisms and remedies in AlInGaN emitters, and
- Ultra-fast THz photonics/electronics.

Our work is interdisciplinary. By the end of their PhD degree, graduate students demonstrate strong skills in solid state physics, TCAD simulation, micro/nano-fabrication, and reliability characterization and analysis of semiconductor devices.

If interested, please take a look at our group webpage at [http://icorlab.ece.illinois.edu/](http://icorlab.ece.illinois.edu/) and contact Prof. Bayram via email [cbayram@illinois.edu](mailto:cbayram@illinois.edu) attaching your CV and unofficial UG/GRAD transcripts.

UIUC-ECE is ranked as one of the top Electrical Engineering Programs. *(4th according to 2019 US News Rankings)*.

The official application **deadline** for the ECE Spring semester is by September 1st.

The official application **deadline** for the ECE Fall semester is by December 15th.

[http://www.ece.illinois.edu/admissions/graduate/graduate-dates-and-deadlines.asp](http://www.ece.illinois.edu/admissions/graduate/graduate-dates-and-deadlines.asp)