

Multiple postdoc positions are available in Prof. Qing Gu's group at North Carolina State University, in areas of nanophotonic materials, devices and circuits.

Prof. Qing Gu's Nanophotonics group is currently located at UT Dallas (<https://nanophoton.utdallas.edu>), but will be re-located to NC State University in January 2022. At NC State, the Nanophotonics group will be a part of both ECE and Physics departments, and will work closely with the department of Materials Sciences & Engineering. The group will also be a part of the Chancellor's Faculty Excellence Cluster in Carbon Electronics (<https://labs.sciences.ncsu.edu/oracle/>).

Applicants should have expertise in spectroscopy (steady-state PL, time-resolved PL, transient absorption spectroscopy), photonic device design, and/or nanofabrication. Candidates with strong background in electromagnetism, condensed matter physics, and quantum optics are also encouraged to apply.

Specific projects include but are not limited to

- Novel perovskite light sources utilizing hyperbolic metamaterials, super-luminescence, or bound states in the continuum resonances
- High-speed perovskite photodetectors
- Topological lasers in III-V material platform
- High-speed nanoscale LEDs in III-V or III-N material platform

The positions start in January 2022, and are open until filled. Salary starts from \$50K/year, based on experience after obtaining the Ph.D. degree. Standard postdoc benefits will be included.

NC State University is located in Raleigh, NC, in the booming research triangle area.

Interested candidates are encouraged to send an email (titled NCSU postdoc application) with CV and any questions to Prof. Qing Gu qing.gu@utdallas.edu