

# Senior Quantitative Researcher — Models & Strategies (US)

Company: Citadel

Role family: QR | Seniority: Senior | Location: United States (NY/Greenwich/Miami vary by role)

Source (public posting): <https://www.citadel.com/careers/quantitative-research/>

Cluster demand (ground-truth): {"QR": 0.75, "DS": 0.1, "QD": 0.1, "MLE": 0.05, "SWE": 0.0}

Reconstruction method: normalized sections + paraphrased responsibilities/qualifications for QA use.

## ROLE SUMMARY

You will develop models that inform systematic strategies and investment decisions. The role centers on rigorous research, massive datasets, and rapid iteration with measurable impact.

## KEY RESPONSIBILITIES

- Build statistical and ML models to identify market patterns and opportunities.
- Evaluate diverse datasets to validate ideas and discover new signals.
- Research risk, construct portfolios, and stress-test models under different regimes.
- Partner with engineering to implement research tooling and deploy strategies.
- Maintain a scientific approach: experiment design, reproducibility, and careful measurement.

## REQUIRED QUALIFICATIONS

- Strong quantitative background (statistics, math, CS, physics, or similar).
- Experience building and validating predictive models with real-world constraints.
- Ability to communicate results and collaborate across research and engineering.

## PREFERRED QUALIFICATIONS

- Experience with market microstructure, optimization, or large-scale simulation.
- Experience with productionization of research outputs.