



**Sr. Financial Economist
Job Number 23525**

THE COMPANY

Fannie Mae is a shareholder-owned company with a public mission. We exist to expand affordable housing and bring global capital to local communities in order to serve the U.S. housing market. Fannie Mae has a federal charter and operates in America's secondary mortgage market to ensure that mortgage bankers and other lenders have enough funds to lend to home buyers at low rates.

For more information about Fannie Mae and our career opportunities and to apply for this opportunity, please visit www.fanniemae.com/careers . For this position, search for job #23525. This position will be posted until filled.

THE POSITION

The position's primary research focus will be the analysis of collateral risk assessable from historical digital appraisal data with the future aim of real-time appraisal risk scoring. This marks a new era in property analytics and the position will be on the ground floor of this effort. The position will play a key role in forming the developing strategies of how to use digital appraisals, how to change the form of appraisals to be useful in modeling frameworks, and to understand how appraisals and automated valuation models interact in the next generation of automated underwriting. (S)he will be responsible for developing, testing, and implementing models to assess the quality and valuation of appraisal.

- **Develop Appraisal Scorecard and Analytics:** The analytics and modeling work stream is a multi-pronged effort which will determine how to interpret appraisals, and how to score appraisals, appraisers, and other service providers and aggregators for value accuracy and process quality. The results of this analysis will point the way to improvements in appraisal editing, format, and practices designed to yield more reliable collateral values. The position will be responsible for creating common metrics for rating appraisals and appraisers, and communicating findings by a system of messages to improve appraisal quality.
- **Analytics of Property Messaging in DU, Analytics of Fieldwork Waivers, and analytics and pricing metrics of Property Inspection Waivers:** The Property Inspection Waiver offers optional collateral fieldwork (appraisal/inspection) relief for transactions meeting certain standards based on a proprietary risk assessment methodology. Offer execution generates customer benefits through potential reductions in borrower costs, reduced loan fulfillment time, and limited relief from standard lender representations and warranties for Fannie Mae deliveries with regards to collateral value, condition, and marketability.

QUALIFICATIONS

- Masters or Ph.D. in Economics, Statistics, Finance, or related quantitative field required.
- At least 5 years relevant research in quantitative, economic, or financial analysis in the mortgage and housing industries required
- Creative thinking and strong intellectual curiosity with attention to experimenting different options and ensuring the quality of data and the soundness of the models
- Expert in SAS required, proficiency in using Matlab and spatial tools preferred
- Expert skills in standard least squares, logistic, and survival models required
- Knowledgeable in advanced and modern tools such as limited dependent variable models, system equations, Bayesian models, mixed models, competing risk models, hazard models and other econometric models
- Experience with spatial analysis and modeling strongly desirable
- Flexibility to work additional hours when needed to meet challenging deadlines
- Ability to work in a team environment, establish and maintain relationships within and across divisions
- Understand data sources deeply and thoroughly, including all sources of intrinsic bias
- Access all data rapidly, able to use whatever tools are appropriate, capable in the management of extremely large data sets
- Expert-level mastery of all standard data handling techniques such as outlier handling, recoding, non-linear transformations, and aggregation

COMPENSATION

Fannie Mae's compensation and benefits package is very competitive. It is designed to help employees meet varying needs throughout their careers and to reward employee's skills, experience, and potential.

Fannie Mae is an equal employment opportunity employer and considers qualified applicants for employment without regard to race, gender, age, color, religion, national origin, marital status, disability, sexual orientation, or any other protected factor.

As a condition of employment with Fannie Mae, any successful job applicant will be required to pass a pre-employment drug screen and to successfully complete a background investigation, which may also include a credit check if the position is sensitive in nature.