



At Warner Music Group, we're a global collective of music makers and music lovers, tech innovators and inspired entrepreneurs, game-changing creatives and passionate team members. Here, we know that each talent makes our collective bolder and brighter. We are guided by four core principles that underpin everything we do across all our diverse businesses:

- **Music is Everything:** Music is our passion, and we can never get enough. Tastes, trends, and tech will change, but great artists and songwriters will always be our driving force.
- **Global Growth, Local Expertise:** Music is a global language. Through communication and collaboration, our success can come from anywhere and translate everywhere.
- **Innovation and Insight:** Pushing the boundaries requires the best information and the boldest imagination. We use both to create the future.
- **Empowered by People:** Like the artists we serve and the music they make, our differences make us stronger. This is a place where every talent can belong and build a career.

We remain committed to Diversity, Equity, and Inclusion. We know it fosters a culture where you can truly belong, contribute, and grow. We encourage applications from people of any age, gender identity, sexual orientation, race, religion, ethnicity, disability, veteran status, and any other characteristic or identity.

Consider a career at WMG and get the best of both worlds – an innovative global music company that retains the creative spirit of a nimble independent.

Job Title: Operations Research Data Scientist

Reporting to: Vice President Data Science

Location: NYC, USA

A little bit about our team:

The Data Science department works to influence WMG's strategy and optimize immediate and long-term operations through data and insights. This position sits at WMG's NYC office, working within the Global Data Organization, WMG affiliates/labels, WMG international teams, and WMG Business Development to understand & curate the trends, patterns & dynamics – the audiences & listening behaviors – for WMG's music.

Your role:

The person in this role will:

- Instantiate & Productionize a suite of enterprise level models and applications that service the global WMG business. In particular: data pipelines, production-ready models for scheduling & dynamic strategy
- In particular create, implement and manage a suite of models for optimizing music content and release strategy via mathematical programming, dynamic programming and/or linear programming
- Research, create, discover and publish new methodology in deterministic and stochastic programming for music listening, rights acquisition, release strategy, and audience segmentation.





Here you'll get to:

- Develop new optimization and scheduling tools based on forecasting, concatenation and compilation of listening behavior (audience segmentation, audience-to-content insight, product life cycle modelling, social behavior modelling) with quantified music/aural sound features
- Implement dynamic programs using best practices; guide analysis into action and results.
- Create modelling suite repositories, feature engineered semantic layers, model comparison repositories and testing assays.
- Develop new testing and decision making for real time assessment listening viewing patterns and performance of music delivery streams.
- Engage with *ad hoc* Business Intelligence requests; produce clear and insightful data-driven recommendations.
- Interact with data engineering teams to codify data needs.
- Help Create a stable and persistent audience/population platform.

About you:

- Doctoral degree **and/or/with** 7+ years of work experience or commensurate in Stochastics, Combinatorics, Operations Research, Mathematical Programming, Computer Science, Computational Finance or Mathematics.
- Proficiency in one of: R, Python, SQL, Stan, Julia, BUGS, etc.
- Proficiency in mathematical solvers: Gurobi, Cplex, MATLAB, other deterministic or probabilistic programming languages
- Proficiency in numerical algorithms and discretization of systems defined by differential equations.
- A results-oriented mind-set with strong analytical skills and problem-solving ability.
- Strong interpersonal skills and ability to communicate clearly and effectively (orally and in writing).
- Strong organizational skills with ability to work on multiple projects.
- Competence at transitioning and enhancing descriptive analytic work to predictive forecasting tools and understanding.
- Prompt, focused work habits and delivery



We'd love it if you also had:

- **3+ years of hands-on experience or training** creating or directing an optimization suite in a 'Bayesian' data science environment to clear deliverables.
- Proficiency in Bayesian process modelling, probabilistic computing, and productionizing Bayesian models as inputs to stochastic programming suites
- Familiar experience with neural network modelling classes
- Hands-on experience with Data Science semantic/feature engineering .

About us:

As the home to Asylum, Atlantic, East West, Elektra, FFRR, Fueled by Ramen, Nonesuch, Parlophone, Rhino, Roadrunner, Sire, Warner Records, Warner Classics, and several other of the world's premier recording labels, Warner Music Group champions emerging artists and global superstars alike. And our renowned publishing company, Warner Chappell Music, represents genre-spanning songwriters and producers through a catalogue of more than one million copyrights worldwide. Redefining what it means to be a music company in the 21st century, our consumer brands include trend-setters like UPROXX, Songkick, HipHopDX, and EMP. We're also the home to WMX – the next generation services division that connects artists with fans and amplifies brands in creative, immersive, and engaging ways – and Alternative Distribution Alliance (ADA) – the ground-breaking global distribution company for independent artists and labels.

Together, we are **Warner Music Group: Music With Vision & Voice.**

Love this job and want to apply?

Please email kobi.abayomi@wmg.com

Don't be discouraged if you don't hear from us right away. We're taking our time to review all resumes, and to find the best people for WMG.

Thanks for your interest in working for WMG. We love it here, and think you will, too.

