

ASPIRE Internship Opportunity:

axialHealthcare

Research Data Scientist
209 10th Ave. S.
Suite 332
Nashville, TN 37203

axialHealthcare is transforming the lives of patients in pain and revolutionizing the delivery of pain care through insightful data analysis, data modeling, and creation of effective cloud-based platforms. We are currently seeking energetic, highly motivated, part-time interns enrolled in a graduate or post-graduate program in biomedical science, engineering, computer science, mathematics, or related field. At axialHealthcare, you will work in an open, fast-paced environment, witness and actively contribute to the growth of a small start-up company, develop and refine communication skills with cross-functional teams, gain business acumen, and delve into the exciting and highly-marketable world of big data analytics. Apply your academic research skills in the workplace!

Opportunities for Growth:

- Improve and/or save lives of patients
- Enhance cost savings for our clients
- Develop knowledge about healthcare, claims, and small business environments
- Learn Structured Query Language (SQL), R, and/or Python programming
- Explore large datasets and database management/design

Projects at axialHealthcare

Identifying and testing risk factors for opioid use disorder

Students will have the opportunity to explore and uncover novel risk factors for the development of opioid use disorder using regression, classifiers, or other algorithms.

Measuring chronic pain in patient populations

What does it mean to have chronic pain from a claims billing perspective? Students will mine medical and pharmacy claims data to enhance identification of patients in chronic pain.

Assessing the impact of provider engagement on opioid prescribing

What effects are our products having on the market and how are we creating value for our clients? Students will study the impact of axialHealthcare's practitioner outreach on various outcomes, such as opioid prescribing and healthcare utilization.

Practitioners: Where are they now?

As a result of axial's NETWORK product, select practitioners who demonstrate particularly egregious opioid prescribing behavior leave the health insurance plan. Where do they go? Do they still practice dangerous behaviors? Students will explore where they go and assess how termination has impacted their opioid prescribing practices.

Internship Responsibilities and Job Functions

axialHealthcare interns perform tasks such as reviewing and organizing scientific literature, performing descriptive statistics using R, Python, and/or SQL, brainstorming testable hypotheses, designing and implementing scoring and predictive models, creating graphs, charts, and other visualizations for clients and leadership, creating and running quality assurance (QA) tests on code, and documenting code.

About axialHealthcare

axialHealthcare provides health insurers with interoperable big data advanced analytics, network solutions, and a connect platform to improve clinical and economic outcomes for patients in pain. We began as a group of physicians, scientists, technologists, and entrepreneurs passionately committed to helping patients in pain and have grown to a company of over 60 employees. We are located in downtown Nashville, TN, in Cummins Station. Visit us at axialhealthcare.com.

INTERNSHIP DETAILS

- Internship will be flexible between September and December, 2017. (appx 12 weeks, with the option to extend pending review).
- Internship is paid, part-time (8-10hrs per week on site, more hours possible as desired by candidate)

Applications due by midnight, Monday, August 28th, 2017

- *Fill out the following ASPIRE Internship Application found here:* (<https://www.surveymonkey.com/r/Sp2017Axial>)
- *Submit a resume (standard 2 page, please no CVs) and cover letter (optional).* (Please submit documents as pdfs with your **last name_axial_Fall 2017** in the file name and with subject line: *ASPIRE Internship:axial*) to Ashley Brady at ashley.brady@vanderbilt.edu
- *Schedule a meeting with Ashley Brady prior to the application deadline.*

Your information will then be passed along to the company who will contact you directly to schedule an interview.

For further questions, please contact Ashley Brady (ashley.brady@vanderbilt.edu).

Please review ASPIRE Internship FAQs: [Found here](#)

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Eligibility requirements

- Applicants must be a current Vanderbilt University PhD student or a current postdoctoral fellow.
- Applicants must submit and pass a urine drug screen and sign Non-Disclosure and Non-Compete Agreements with axialHealthcare.
- All PhD students must have completed all coursework for their degree prior to the start of the internship.
- Biomedical PhD students must also have passed their qualifying exams before the application deadline.
- Students and postdocs may not participate in more than one internship at a time. More than one application may be submitted at a single time, but only one position can be accepted.
- If you are not in a department supported by the BRET office, we will also require that you complete a form guaranteeing PI approval to participate in this program. Please contact Ashley Brady at ashley.brady@vanderbilt.edu for more information.
- If you are an international student or postdoctoral fellow, your visa status may affect your work eligibility. Please contact Ashley Brady (ashley.brady@vanderbilt.edu) to discuss this further.