

## Additional Internships 2010

### **Allstate Insurance Company, Quantitative Research and Analysis Intern**

Northbrook, Illinois

**Number of Positions:** Three

**Type of Student:** Graduate/PhD

**Deadline:** January 29, 2010

The department of Quantitative Research and Analytics at the Allstate Insurance Company invites all PhD and Master's degree students to find out more about our careers in the field of Predictive Modeling and Insurance to apply for our Quantitative Research and Analysis Intern position available at Allstate's headquarters in Northbrook, IL. We are looking for creative individuals with strong quantitative backgrounds who are able to learn quickly on the job.

The Quantitative Research & Analytics group at Allstate is responsible for the design of state-of-the-art mathematical and statistical models used for pricing different risks, as well as supporting the use of our existing models throughout the organization. By leveraging its quantitative expertise, the group also provides consulting services to the rest of the organization to help them make informed business decisions. Our ideal candidate has solid skills and training in statistical/mathematical modeling and other quantitative and research analytics (Linear and Non-Linear Regression Analysis, Multivariate Analysis, Time Series Analysis, Generalized Linear Models, Linear Optimization etc.); strong written and verbal communication skills including the ability to effectively collaborate with multi-disciplinary groups and all organizational levels; strong decision making skills; comfortable with basic data related and presentation packages like Access, Microsoft Excel, MS Word, PowerPoint etc.; and familiarity with statistical packages such as SAS, Splus, Matlab, SPSS, or STATA is a plus. Responsibilities include identifying drivers of insurance costs and estimating the expected losses for classes of risks using advanced statistical techniques; assisting decision makers with studies that evaluate new business models for customer retention and growth initiatives as well as estimating the future value of customer segments; estimating the economic impact of new pricing strategies, operational decisions and proposed legislation; acting as an analytical consultant for other operational departments such as Pricing, Marketing, Finance and Risk Management; and communicating findings and recommendations to senior level management across different departments.

The Allstate Corporation is the nation's largest publicly held personal lines insurer and a Fortune 100 company with \$157.5 billion in assets. Our mission is to serve our customers by providing peace of mind and enriching their quality of life through partnering with them in the management of the risks they face. Allstate sells 13 major lines of insurance, including auto, property, life, and commercial. Founded in 1931, The Allstate Corporation encompasses more than 70,000 professionals. Of our employees, nearly 30 percent are minorities and 59 percent are women.

**Contact:** TO APPLY and/or learn more about this internship opportunity, please visit <https://allstate.taleo.net/careersection/10000/jobdetail.ftl?lang=en&job=0008QP&src=PA-10940>.

### **Celgene Corporation, Summer Internship - Biostatistics**

Summit, New Jersey

**Number of Positions:** One

**Type of Student:** PhD

**Deadline:** May 31, 2010

Celgene Corporation is committed to delivering innovative therapies designed to improve the lives of patients worldwide. We are a global biopharmaceutical company with operations in more than 60

countries that is helping to turn incurable cancers into chronic, manageable conditions. The Biostatistics and Statistical Programming Department has an internship in Biostatistics for full-time students pursuing a PhD degree in Statistics, Biostatistics or related area. In these internships, you will work closely with an experienced pharmaceutical industry statistician to work on data analysis and reporting and/or statistical research related to drug development. To be considered, student must have completed required courses and is working on their dissertation towards a PhD degree in Statistics related; effective oral and written communication skills; and a good working knowledge of SAS and/or R.

**Contact:** Those interested in the position should send their resume and a letter of reference from a professor to [careers@celgene.com](mailto:careers@celgene.com).

### **Eisai Inc.**

Woodcliff Lake, New Jersey

**Number of Positions:** 4

**Type of Student:** Graduate

**Deadline:** April 30

A limited number (4) of summer internship positions are available in Biostatistics at Eisai Inc. to work on collaborative research projects on aspects of statistical modeling and applying methods to existing databases. The student will gain hands-on experience as a biopharmaceutical statistician and also be engaged in innovative work. The project may involve reading research papers, simulations to assess the performance of commonly used and novel methods, and/or other support tasks in the clinical drug development. Examples include dose selection modeling, adaptive design, Bayesian methods, sensitivity analysis for missing data imputation, survival analysis, pharmacogenomics, and multiple comparisons for subgroups and endpoints. Any other proposal that is related to the candidate's experience and research interest and fits our needs will also be considered. The student will be expected to give an informal presentation about the project to the Biostatistics group at the end of the internship.

The successful candidate should be a student with at least a BS in statistics or mathematics, preferably, be enrolled in a Master's or Ph.D. program in statistics or a related field, and have some knowledge of programming in SAS, R or S-Plus.

**Contact:** Christina S. Iskandar ([Christina\\_Iskandar@eisai.com](mailto:Christina_Iskandar@eisai.com)). All students must apply for internships online in order to be considered. For our Biostatistics Summer Internship Program, please go to [Eisai.com](http://Eisai.com), under the Eisai Careers tab, click on Search Openings, and type 1474BR in the Auto Req ID field.

### **Precision Bioassay, Inc.**

Burlington, Vermont

**Number of Positions:** 1-2

**Type of Student:** Graduate Student in Statistics or a closely related field.

**Deadline:** February 28 for full consideration

Precision Bioassay, Inc. consults to industry, academia, and government on biological assay including: design, analysis, development, validation, and the relationships among product specifications and the capabilities of various components of the system. Our focus is on helping the biotechnology and pharmaceutical industries use statistics more effectively, particularly for bioassay. We develop and improve statistical methods, implement them in R as well as creating effective links between statistical software and laboratory robotics. The successful candidate will participate in: data analysis and report writing for consulting projects, statistical research (partially supported by grant funding), and software or assay development and testing.

Candidates should have training in statistical theory and methods and some relevant experience. This experience should include R or S-plus, TeX, Sweave, and consulting on applied statistics. A working familiarity with linear models, nonlinear models, mixed effects models, and strong communication skills (written and oral) are required. Training or experience in the following areas will be particularly relevant: design of experiments, biological sciences, biological assay, non-clinical applications of statistics in the pharmaceutical industry, laboratory automation, working in a Linux environment, R package development, or web/Python application development.

Please submit a cover letter, CV, and a short (2 pages maximum) description of 1-3 consulting projects. The consulting project descriptions should include a description of the application area problem, the statistical problem you extracted, how you solved the statistical problem, and how the statistical solution resolved the application problem. These positions are contingent on funding.

**Contact:** Additional information is listed on our web site, [www.precisionbioassay.com](http://www.precisionbioassay.com). Inquiries about the content of the work may go to David Lansky ([david@precisionbioassay.com](mailto:david@precisionbioassay.com)). Please submit application materials to Georgeana Little at [glittle@precisionbioassay.com](mailto:glittle@precisionbioassay.com). (802) 865-0155; (802)-861-2365 (fax)